



RAPIDPRINT

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RAPIDPRINT INC.

SERVICE MANUAL



DATE/TIME/NUMBERING STAMPS
Models: A-E, V-E and C724-E

AUTOMATIC CHECKSIGNER
Model: C650

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LIST OF SPECIFICATIONS

MODEL AR-E TIME STAMPS

MODEL AN-E NUMBERING MACHINES

These machines are housed in a metal case consisting of two castings of contemporary design hinged at the back. The exposed surfaces are finished in a durable taupe (brown) hammer-tone. The stainless steel paper shelf is attached directly to the lower casting. A tumbler-type lock serves to secure the casting, thereby preventing any tampering with the machine setting by unauthorized persons. The entire machine rests on four rubber feet which give the stamp a firm non-scratching base. The length is 10-1/4", the width is 4-3/4", the height is 7-7/16", and the weight is approximately 16 lbs (depending on the model). All interior parts are specially treated to make parts corrosion resistant.

	<u>AR - E</u>	<u>AN-E, ADN-E</u>
Wheels	Brass	Same
Time Unit	Low speed synchronous motor	N/A
Number Unit	N/A	Rotary Solenoid designed for intermittent duty @120VDC
Drive Cam	Black Delrin 500 material	N/A
Ribbon Mechanism	Durable/reliable assembly. Linked with stamping mechanism to advance/reverse ribbon. All interacting parts are hardened at wear points.	Same
Ribbon	Fine textured ribbon using a special ink chosen for this application. The ribbon texture ensures long wear. It comes mounted on twin spools ready for easy insertion.	Same
Printing Coil	Wound with high grade enameled copper wire. Entire coil is encap- sulated in a plastic casing.	Same

Continued next page...

LIST OF SPECIFICATIONS

MODEL AR-E TIME STAMPS

MODEL AN-E NUMBERING MACHINES

Continued from previous page...

	<u>AR - E</u>	<u>AN-E, ADN-E</u>
Circuit Board	Contains zero-crossover detector and potentiometer for adjusting force of imprint. Components for converting 110 VAC to 12 VDC are on the board. DC is used to power CMOS logic. Print coil powered by impulse from AC line. CMOS logic requires little energy to operate allowing the board to use less than 1/200th of a watt. The board plugs into an edge connector which ties in all machine wiring.	Same-also controls sequential number advance before imprint. Full wave bridge rectifier on board to power rotary solenoid.
Trigger Switch	Snap action	Same
Electrical Wiring	Internal wires are #20 AWG stranded, 600 volts plastic covered(PVC-1/32" wall thickness). Five wire colors are used for easy identification. The power cord and plug is type 18-3 SVT w/molded plug.	Same
Transient Suppressor	Metal Oxide Varistor assembly installed across AC line to protect against line transients.	Same

INTRODUCTION

Rapidprint's electronic A-Series Automatic Time Stamps, Date Stamps, and Numbering Machines offer electronic control circuitry which enables the user to select the imprint strength needed for the particular form and applications and assures consistent imprints from one impression to the next.

Rapidprint also offers a visual clock optional on all models.

In addition to the advantages described, the electronic circuitry will also provide longer life and trouble free service since electronic components do not undergo wear and have a longer operating life. The number of components necessary to achieve the sensing and control functions are greatly reduced, thus further assuring greater reliability.

THEORY OF OPERATION

AR-E, AD-E, ARC-E, ARL-E, AN-E, ADN-E

The circuit boards incorporated into the AR-E/AN-E machines contain the electronic circuitry which permits very close control of the action of the printing solenoid. This control is essential for consistent prints and to allow full adjustment of printing force.

The circuit boards make electrical connection to the machine wiring through a 15 pin edge connector. All wiring is brought to this connector and provision is made on the circuit boards for accommodating all options offered for AR-E/AN-E machines.

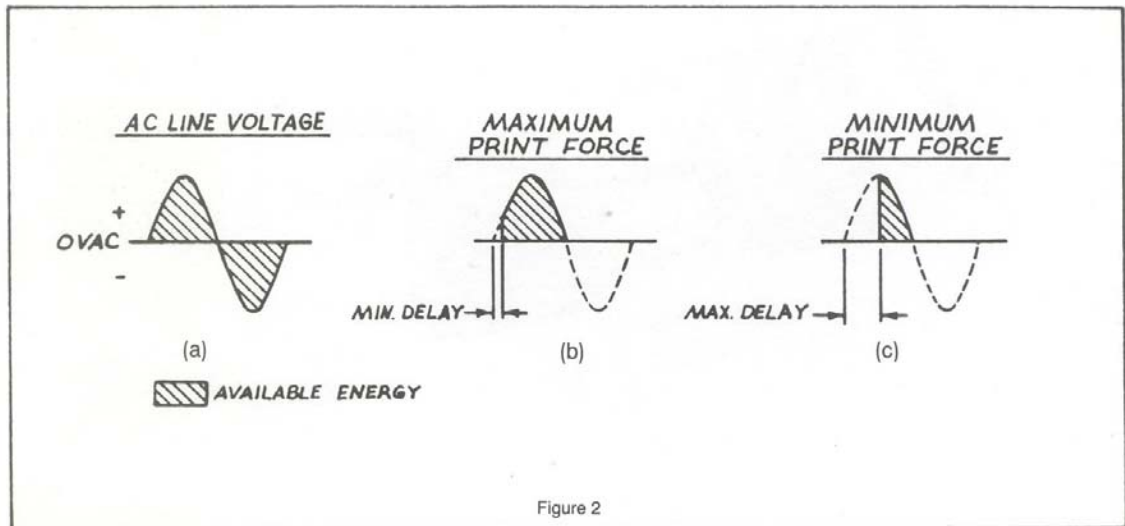
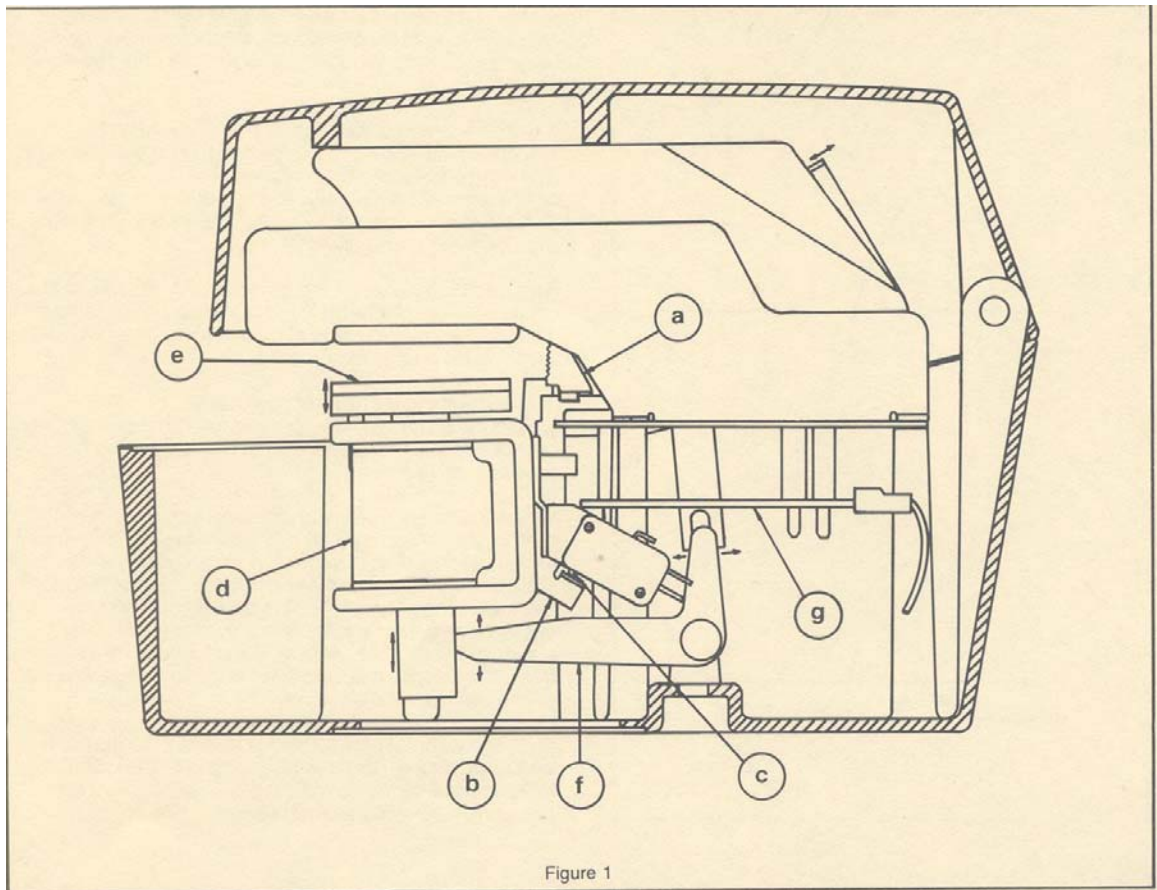
Actuation Of Printing Mechanism (*figure 1*)

Inward movement of a document into the throat of the machine pushes back the trigger assembly (**a**). This action moves the trigger arm (**b**) downward, releasing the snap-action switch button (**c**). The resulting signal anticipates the timing of the next positive-passing of the line voltage through zero. At this instant, a controlled delay is initiated which determines the amount of energy delivered to the imprint solenoid (**d**).

A potentiometer allows adjustment of this energy level for imprint force. The unrectified line current is shown in ***figure 2a***.

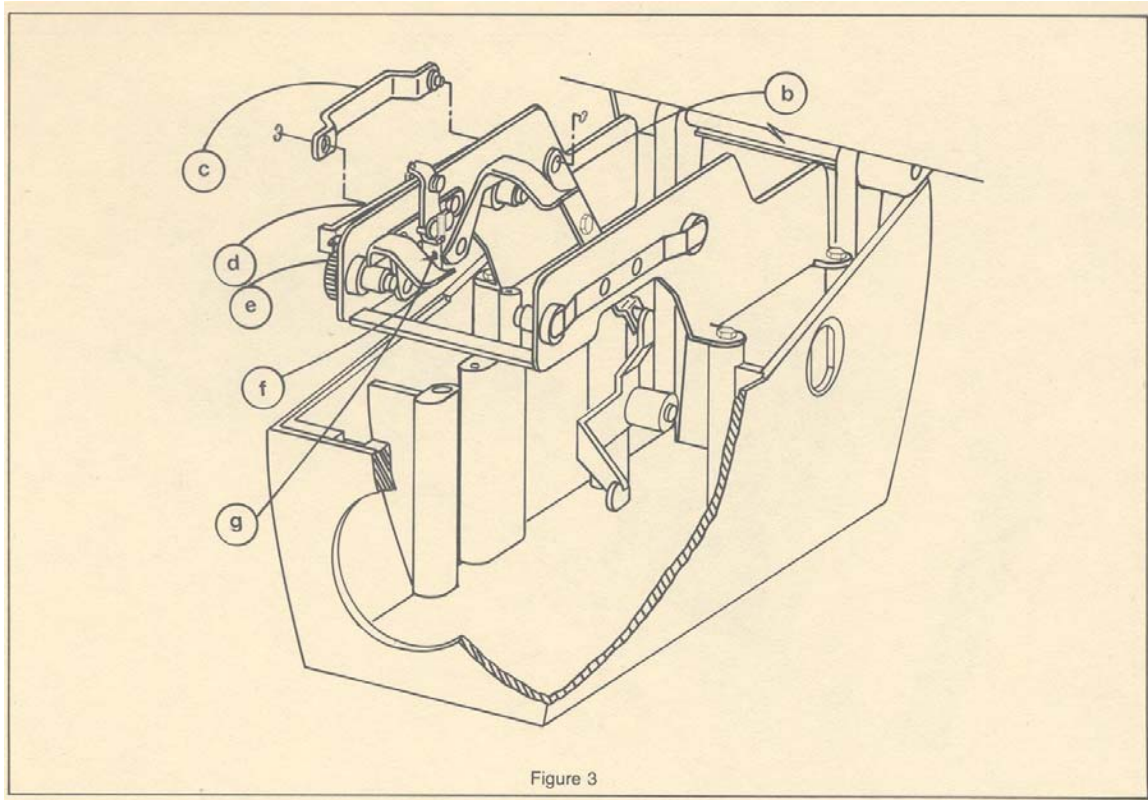
With minimum delay, the print force is maximum (***figure 2b***). The lightest image is printed when the delay is longest (***figure 2c***). A single pulse of AC line current drives the solenoid coil. The current is controlled by a Silicon Controlled Rectifier (SCR).

The solid state switching design totally eliminates contact arcing and also allows a much higher current than is practical with a trigger switch mechanism.



Automatic Ribbon Advance (*figure 3*)

When the printing weight moves upward with each imprint, it takes with it the ribbon feed actuator which moves the ribbon transport lever pushing the ribbon feed link (c) forward advancing the ribbon feed pawl (d) which rotates the ratchet and gear (e). Every printing action advances the ribbon until one spool is filled. As the spool reaches maximum diameter, it lifts the ribbon feeler (f). At the feeler's highest position, the ribbon reverse toggle assembly (g) shifts its position to feed the ribbon in the opposite direction.

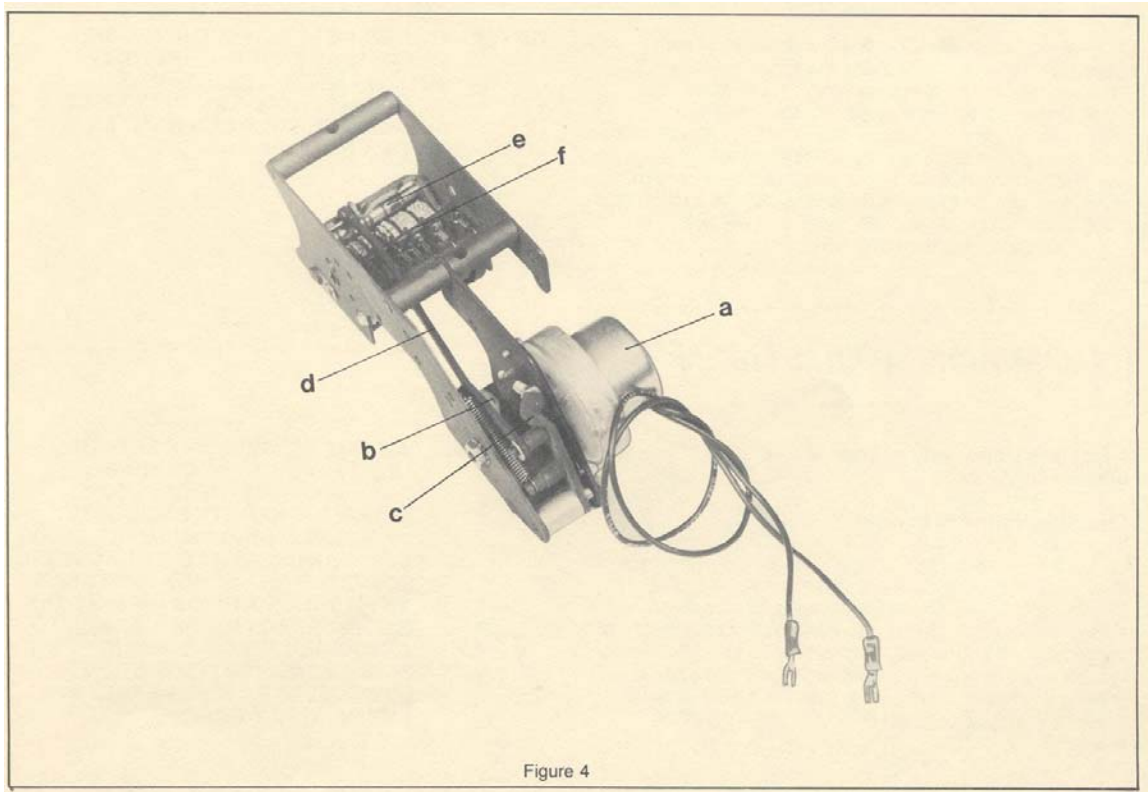


Type-wheel Operation (Model AR-E *figure 4*)

The date/time type-wheels, located in the upper casting, operate independently of the printing and ribbon mechanism. When plugged into a 110 VAC power source, the synchronous motor (a) will operate continuously, rotating the impulse cam (b) one revolution per minute. The cam action pushes back the cam follower (c) and the connecting arm (d) attached to it. The pull of the connecting arm takes with it the actuating pawl swing assembly which includes the actuating pawl assembly (e) with its stepped, rake-like teeth of varying heights. As the impulse cam (b) allows cam follower (c) to snap back down, the first tooth of the pawl assembly, pushes the unit wheel forward one digit (once per minute) by engaging the ratchet which is attached to the side of the wheel. At the tenth minute, pawl tooth enters a drop in the unit wheel ratchet allowing the next pawl tooth to engage the tens minute wheel. This process continues until the two wheels show 59 minutes. At this point, the hour wheel is engaged and the type-wheels indicating minutes advance to zero.

At each twelve-hour period, the AM-PM wheel is advanced. At each 24-hour period the date wheels also advance. This entirely automatic process continues until the end of the month. At this point, the month wheels must be reset manually. The year wheel must also be reset manually at year end.

The retaining pawls (f) are held in position against the printing wheel ratchets by the retaining pawl springs. The pawls serve to prevent over-throwing the wheels and ensure proper alignment.



Type-wheel Operation (Model AN-E *figure 5*)

Unlike the date/time stamp, the numbering typewheels do not operate independently of the printing mechanism.

When the trigger releases the snap-action switch button, the number advances before the stamping cycle and occurs in the following manner. A count begins within the circuitry which continues for five cycles of the AC line. A Triac is switched on during the five cycle count and powers a full wave bridge rectifier which energizes the rotary solenoid. After a count of 3 cycles is made, the stamping cycle is initiated so that the stamping will take place immediately after the number wheels advance. The rotary action of the solenoid moves the actuator arm assembly (a) and the connecting link (b). The forward push of the connecting link takes with it the actuating pawl swing assembly (c).

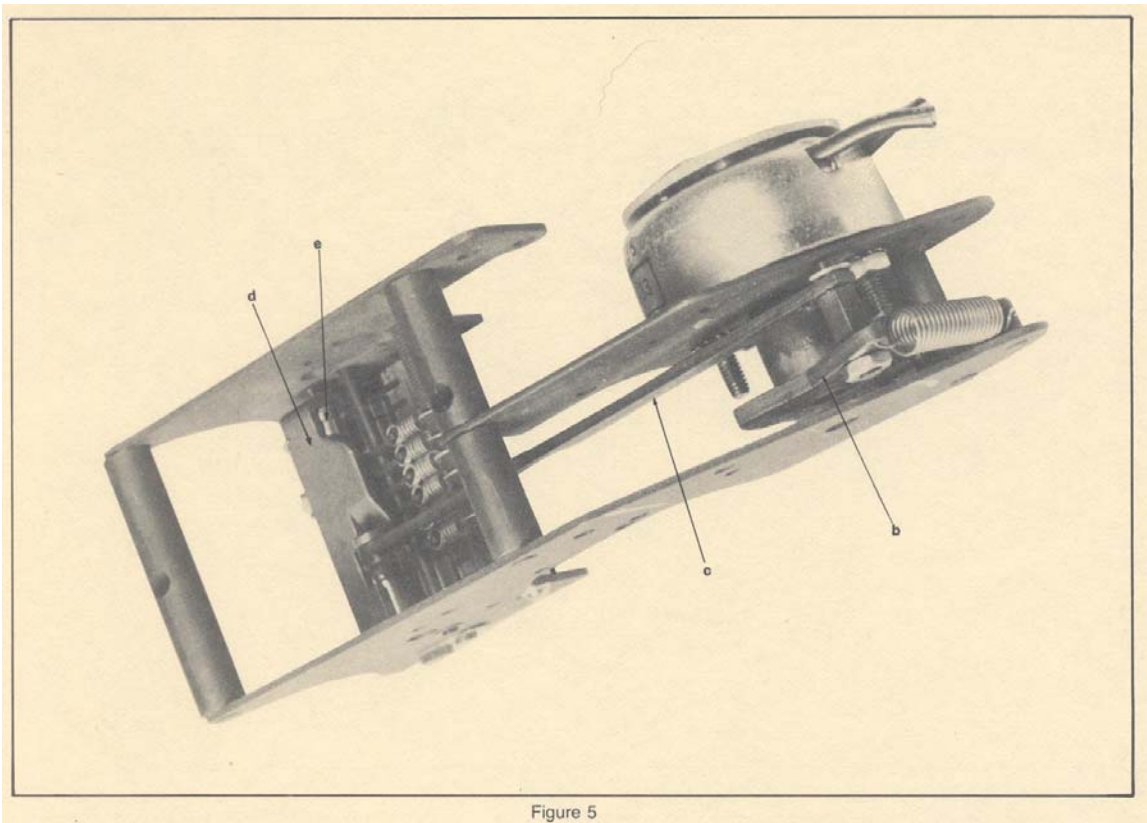


Figure 5

OPERATING INSTRUCTIONS

Rapidprint Date/Time and Numbering machines are electrically-operated automatic machines offering crisp, clean straight line imprints. They are designed for easy, convenient usage, and long-life dependable service. Insertion of a business form or other paper document into the throat of the machine automatically actuates the printing mechanism to register the imprint on the upper side of the paper.

Setting Print Wheels

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET BEFORE OPENING UNIT TO MAKE ANY ADJUSTMENT.

1. Turn key counterclockwise to lift top cover. Print wheels are located in recess area of top cover.
2. Set each print wheel individually to the date, time or number desired. Turn each wheel downward to the setting desired, using a pencil or a wooden stylus. (*figure 6*)

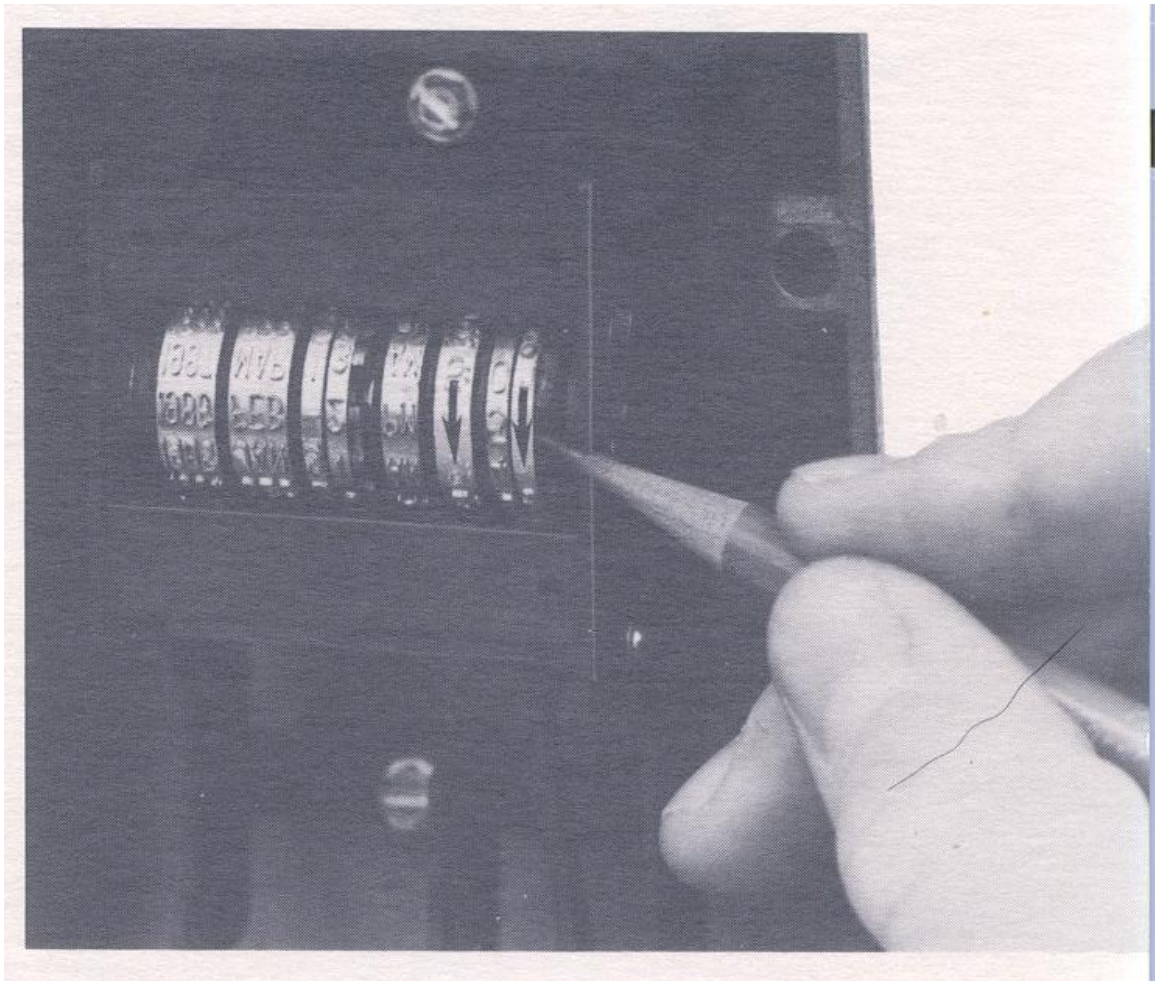


Figure 6

3. Insert plug back into wall receptacle.

Stamping An Impression

Insert form into throat of machine far enough to actuate trigger. When the trigger is actuated, the unit will automatically stamp the desired impression.

Description Of Major Assemblies

Rapidprint Date/Time and Numbering Stamps consist of four major assemblies (*figure 7*), which are easily serviced. The design allows worn parts to be replaced quickly and inexpensively, thereby ensuring a long service life for each machine.

1. Typesection Assembly-includes a set of typewheels actuated by a 60-cycle alternating current, synchronous timing motor in the case of a Date/Time Stamp, or a rotary solenoid for a Numbering Machine.
2. Bottom Frame Assembly-serves to support and move the inked printing ribbon.
3. Solenoid Frame Assembly-includes the printing plunger, coil and mechanism required to produce the printing action.
4. Casting Assembly-houses the entire machine.

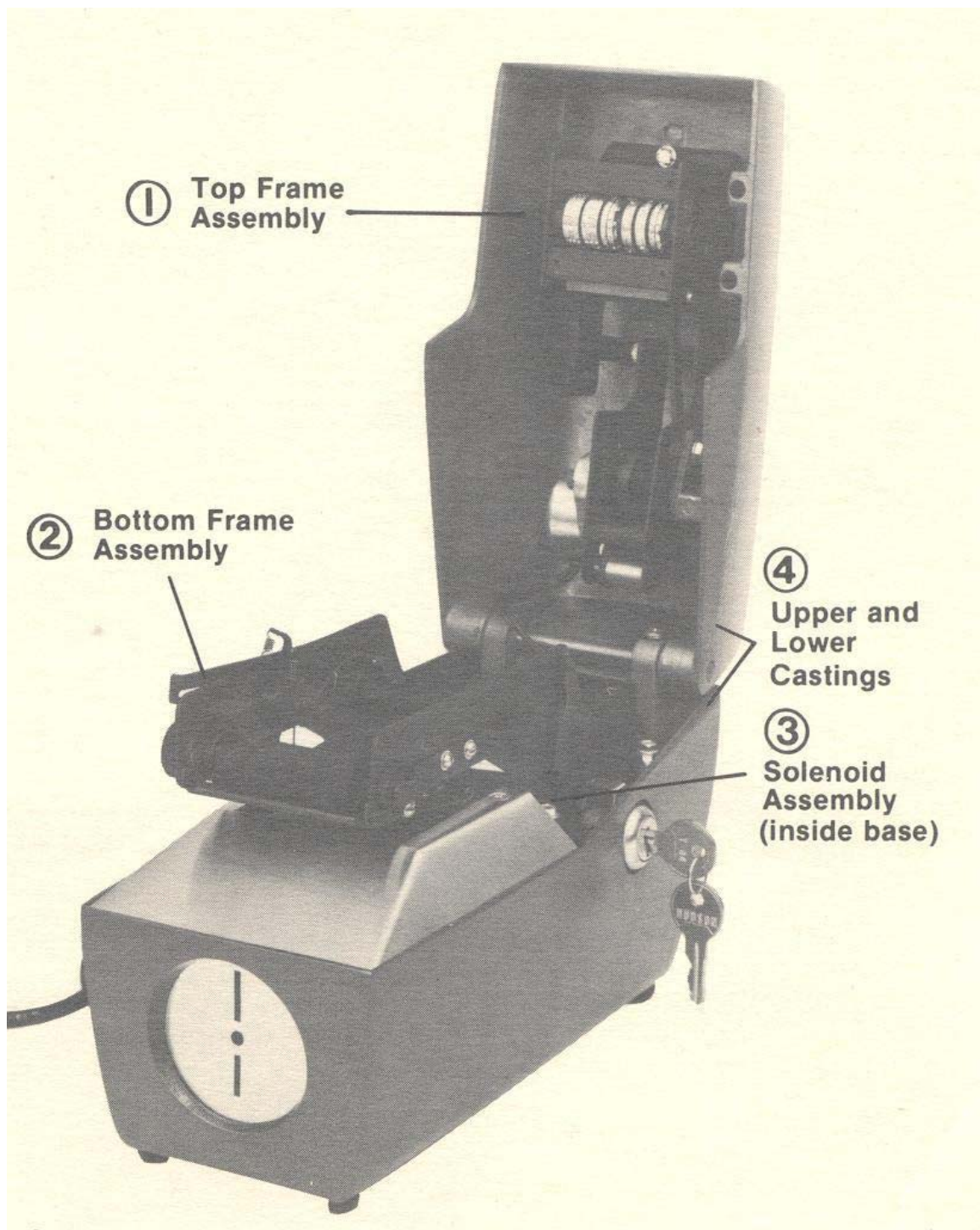


Figure 7

COMMON ADJUSTMENTS

Changing Force Of Imprint

If the imprint is not sufficiently sharp, or if you must stamp through a multiple copy form, you can increase the print force easily. Gently insert a small screwdriver into the hole in the circuit board mounting plate as shown in *figure 8*. Be sure the blade of the screwdriver fits properly into the potentiometer slot. Turn clockwise to increase imprint force, or counterclockwise to reduce the force. Do not try to turn the potentiometer past the stop points (high or low) or damage may result.

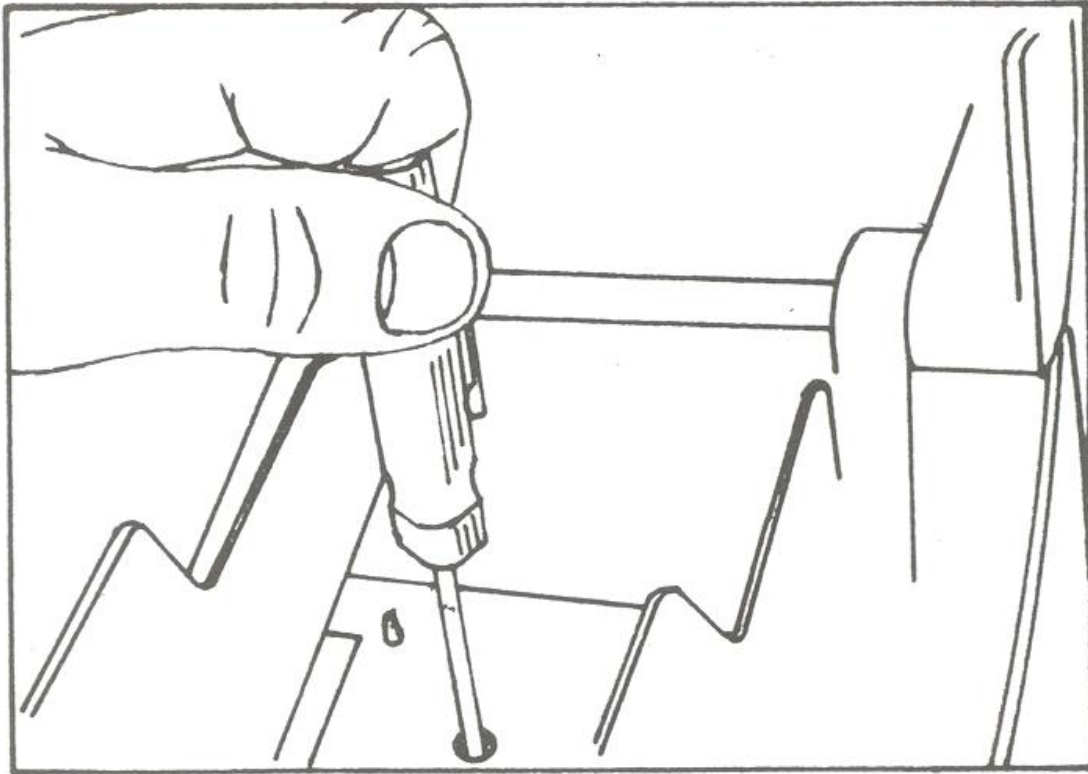


Figure 8

CAUTION: ALL MACHINES ARE ADJUSTED TO A STANDARD IMPRINT FORCE WHEN SHIPPED FROM THE FACTORY. IMPRINT STRENGTH SHOULD BE INCREASED ONLY WHEN MULTIPLE COPY FORMS ARE TO BE USED. USE LOWEST PRINT FORCE NECESSARY TO PRODUCE A GOOD IMPRINT. DO NOT INCREASE IMPRINT FORCE TO COMPENSATE FOR A WORN RIBBON. HIGH SETTING, WHEN UNNECESSARY, WILL RESULT IN PREMATURE WEAR.

Imprint Location

The print location is adjustable from 1/8" depth to a 1-5/8" depth.

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

Open the cover and remove the ribbon. To increase the throat depth, slightly loosen the screw securing the trigger top and slide it back as needed (i.e. if you wish to move the print 1/8" further down from the top of the document, slide the trigger top 1/8" toward the rear of the machine).

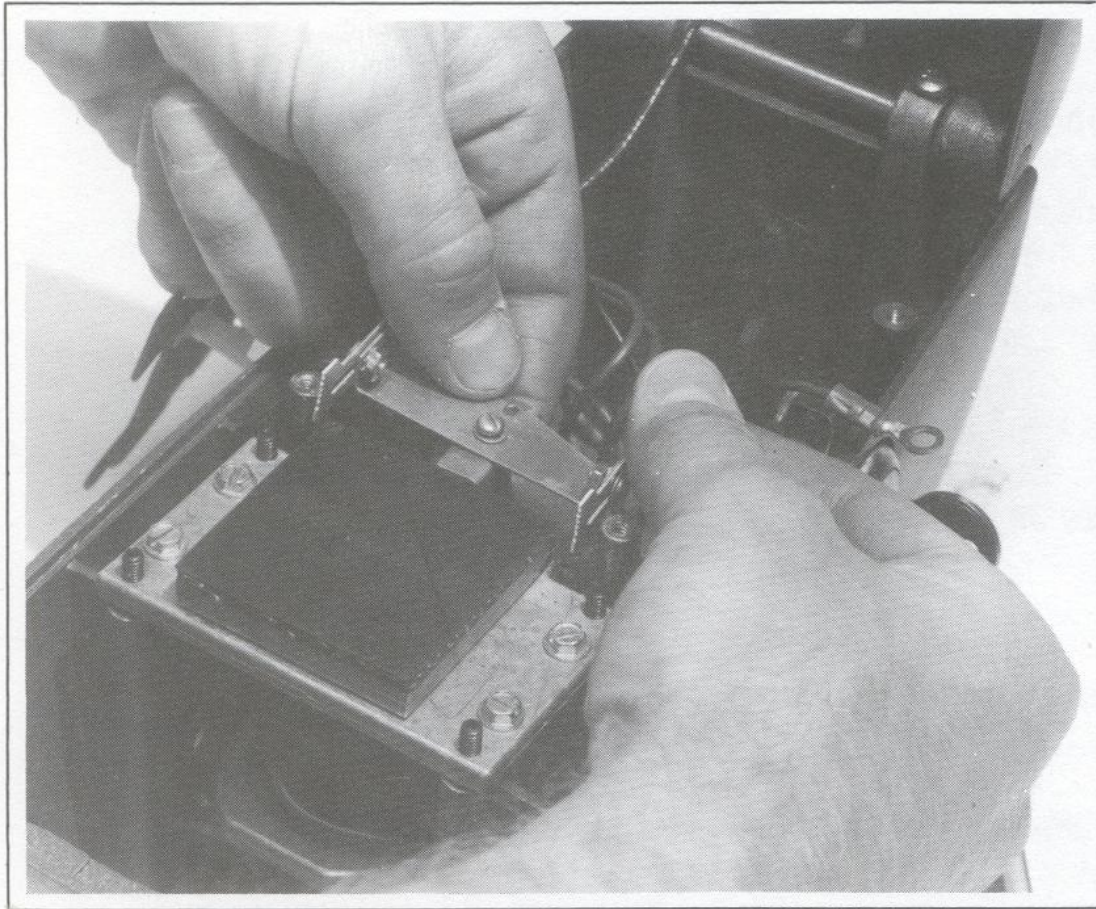


Figure 9

Obtaining a throat depth of less than 1-3/16" requires an extended trigger (*figure 9*). (Unless you stock this part, it must be specially ordered). The trigger extension support replaces the standard trigger top. The trigger extensions, which reach toward the front of the machine, are then adjusted as desired (*figure 10*).

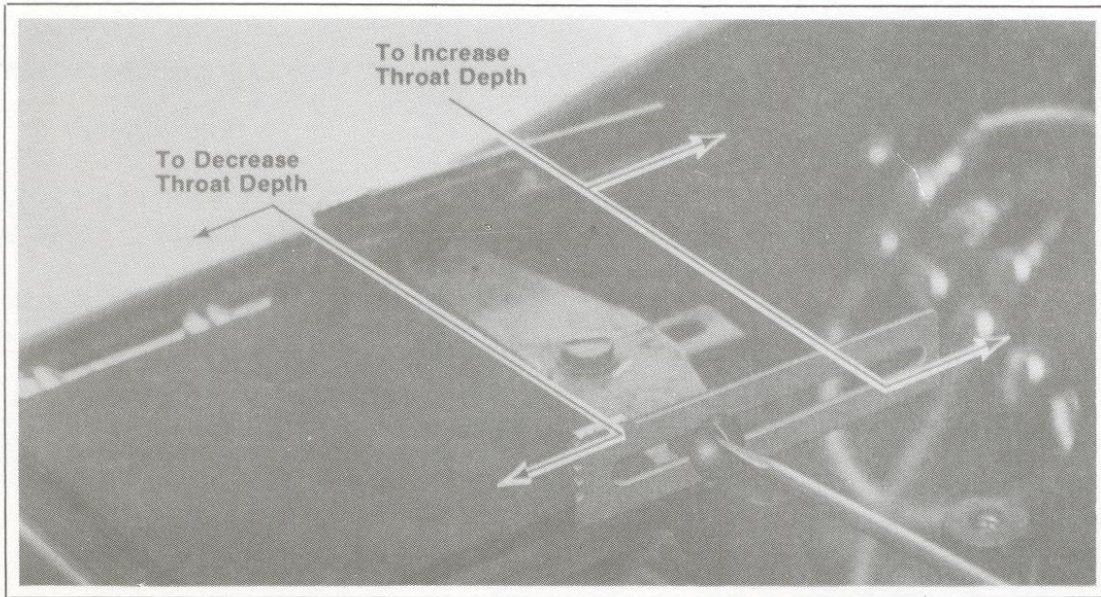


Figure 10

Installation Of Extended Trigger:

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

1. Remove ribbon frame assembly.
2. Remove base plate/circuit board assembly.
3. Loosen trigger top screw only slightly and push top toward rear of machine.
4. Using your left index finger, hold the hex nut and lockwasher in place and remove the screw and trigger top.
5. Still holding the nut and washer, place the extension support on the trigger. Insert screw and secure the assembly (*figure 9*).
6. Adjust for depth as shown in *figure 10*.
7. Reinstall base plate/circuit board assembly and ribbon frame assembly.

Adjusting Uniformity of Imprint:

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

First, be sure that the inked ribbon is in good condition. Next, check the condition of the type-wheels. If the operator has carelessly stamped documents with paper clips attached, the characters on the wheels may be damaged. On older machines, some characters may wear down with time and usage. Both problems reduce imprint definition. If the unit passes these first two visual checks, make a sample imprint and examine it. It should be uniform for all letters and numbers. If the imprint is uneven from side to side or top to bottom, adjust the print solenoid frame by either of the two methods below:

1. Adjusting Solenoid Frame:

If the imprint is weak on the left side, loosen the four #8-32 solenoid mounting screws. Use a 1/16" Allen wrench to turn the two #8-32 socket set screws on left side of the solenoid frame to help even the imprint. Follow the same procedure to adjust the appropriate set screws for weakness on the right, top or bottom of imprint.

2. Die Plate Adjustments:

If the frame adjustment described in the preceding paragraph does not correct the condition, use the following procedure: loosen the two #3-48 flat head screws that hold the die plate to the type-section frame. Cut a length of thin paper the size and width of the weak area on the die plate and place the paper between the die plate and the top frame. Retighten the die plate mounting screws and take a sample imprint. If the imprint is improved but still has uneven areas you may file the rubber platen. To help you find the area to file, take a length of twine and hold one end in each hand. Insert the twine into the machine until you hit the trigger top and the machine prints. By doing this, a sample inked imprint will appear on the rubber platen, showing areas of heavy print. Now take a narrow file and very carefully file away rubber from the heavy inked area. Repeat procedure until print is satisfactory.

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

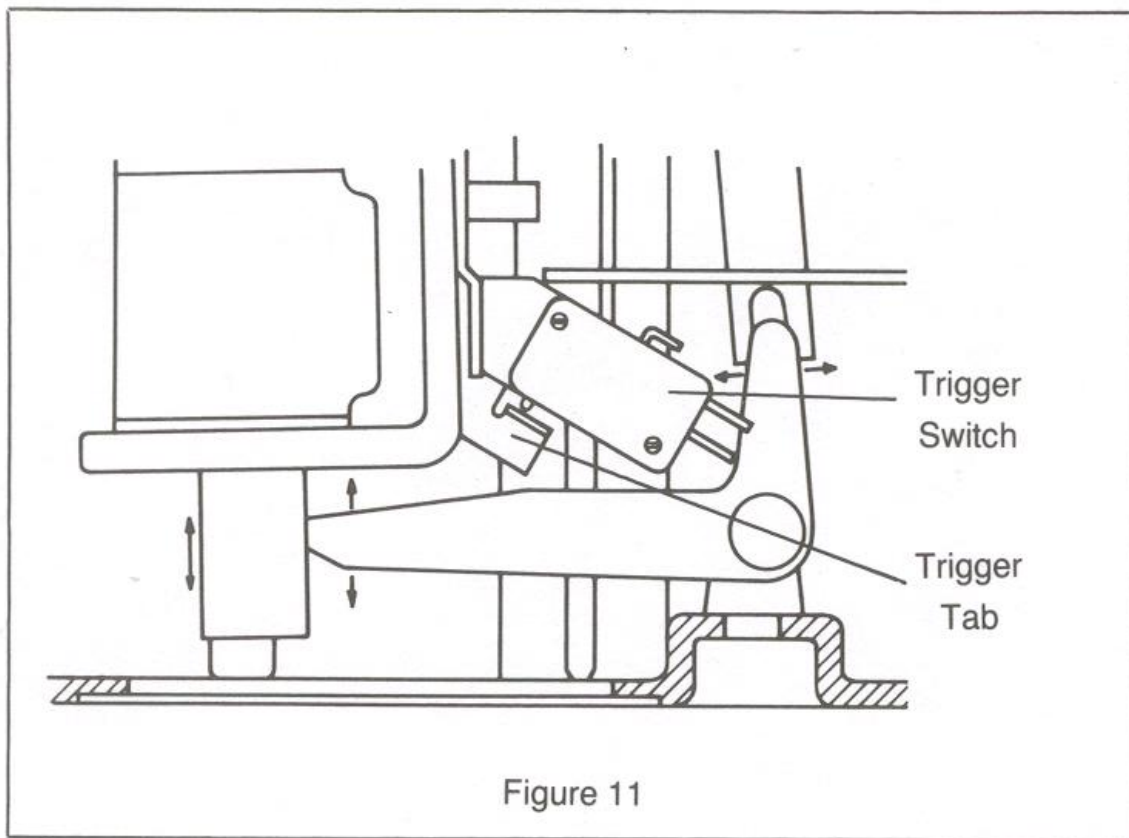
TROUBLESHOOTING GUIDE

Machine Does Not Stamp:

If the machine does not stamp when a document is inserted, the following checks should be made in the order listed.

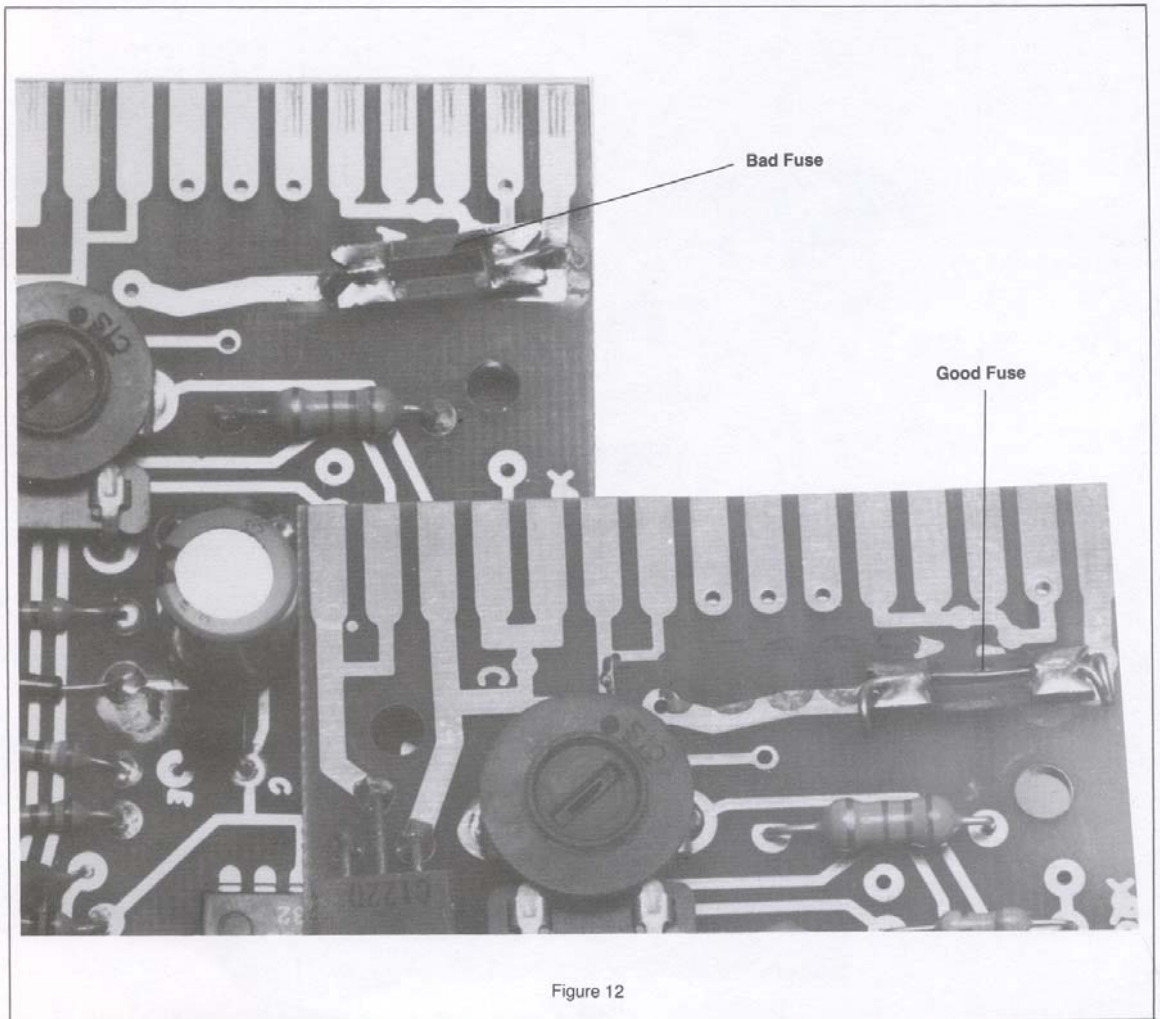
NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

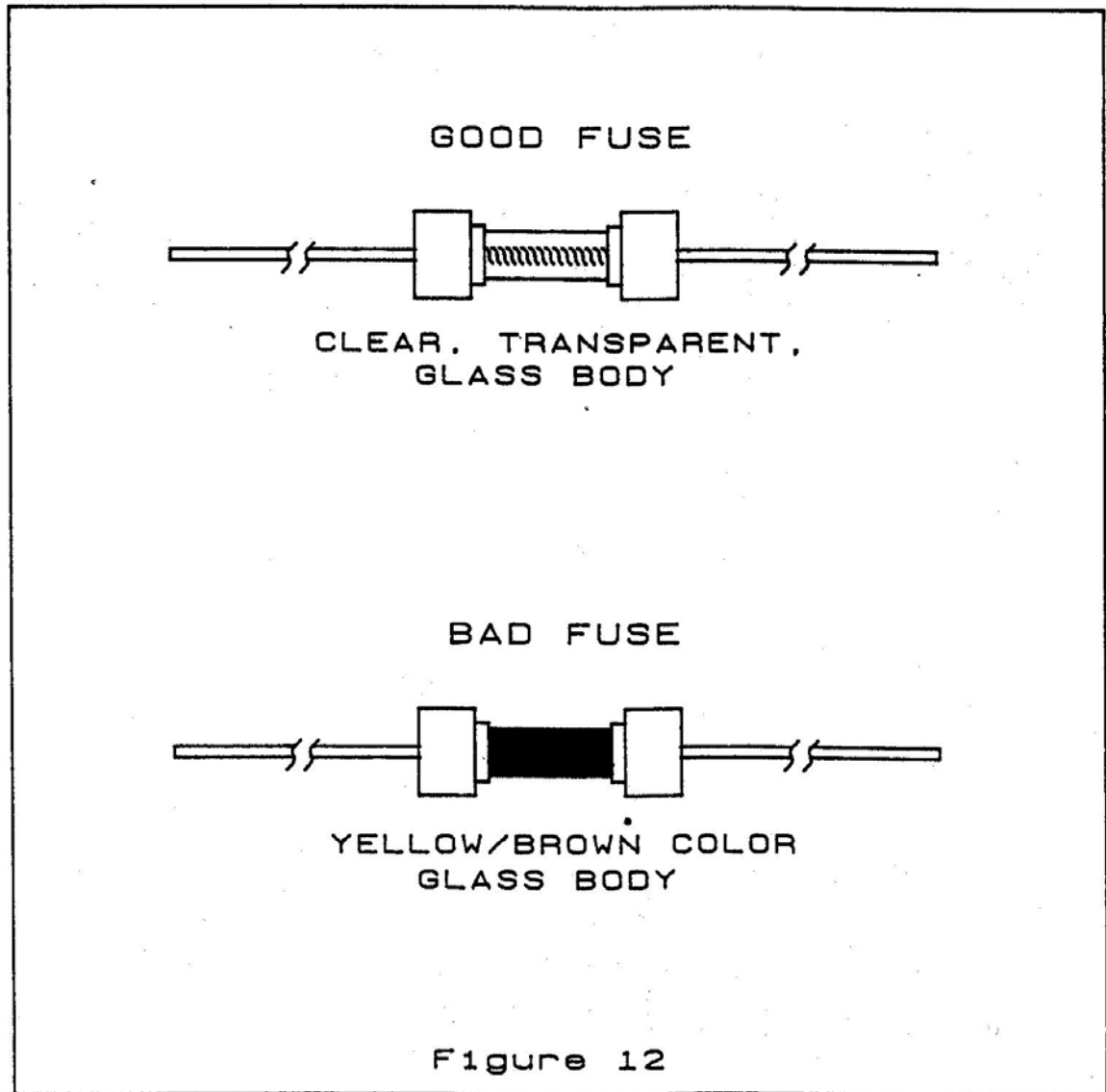
1. Make sure the printing weight moves freely up and down.
2. Trigger/Switch setting:
 - a) Visually check the trigger and switch. The trigger tab should be square with the switch (**figure 11**).



- b) Push the trigger top back and observe the switch button. The button should come out and "click". The click indicates the closing of the circuit.
 - c) If the switch mounting bracket is set too low, the travel of the trigger tab will not be sufficient to close the circuit.
 - d) If this is the case, move the mounting bracket away from the tab until you hear the "click".
 3. Check Adjustment:
 - a) In both directions, the trigger tab should cause the switch to click in the middle of the trigger travel, not at either end of the travel.
 - b) Adjust as necessary.
 - c) If machine still does not stamp, see **step 4**.
 4. Check Fuse:
 - remove ribbon frame

-remove base plate/circuit board assembly-disconnect circuit board from terminal connector - visually check fuse (*figure 12-two types*)





a) If fuse *is not* blown, see **step 6** . If coil continuity is good, circuit board replacement is necessary.

b) If fuse *is* blown, see **step 5** . If replacement fuse blows, circuit board replacement is necessary.

5. Fuse Replacement:

Use standard soldering techniques when replacing fuse. Observe precautions necessary when working with printed circuit boards.

-cut fuse from board.

-use **soldering pencil** to remove remaining wire.

-be sure that circuit board holes are free of solder so that new fuse will fit properly.

-when installing new fuse, solder leads on top **and** bottom of circuit board and remember to clip the extra wire.

6. Coil Continuity:

Use a multi-meter to check the continuity of the coil. Insert probes into terminal connector at terminals **1** and **14** . An infinite reading indicates the coil is defective. A good coil will read between **1.5** and **1.7** ohms.

Machine Gains Time:

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

1. Make sure the actuating pawl teeth are stepped properly (***figure 13***). Observe the wheels turning and be sure the correct wheels advance at the end of each cam rotation cycle. Replace actuating pawl if necessary.



Figure 13

2. The machine may also gain time if the bumper screw setting is too low. This condition causes the cam follower to travel too far, overthrowing the wheels. Check for this condition using the following procedure (***figure 14***):

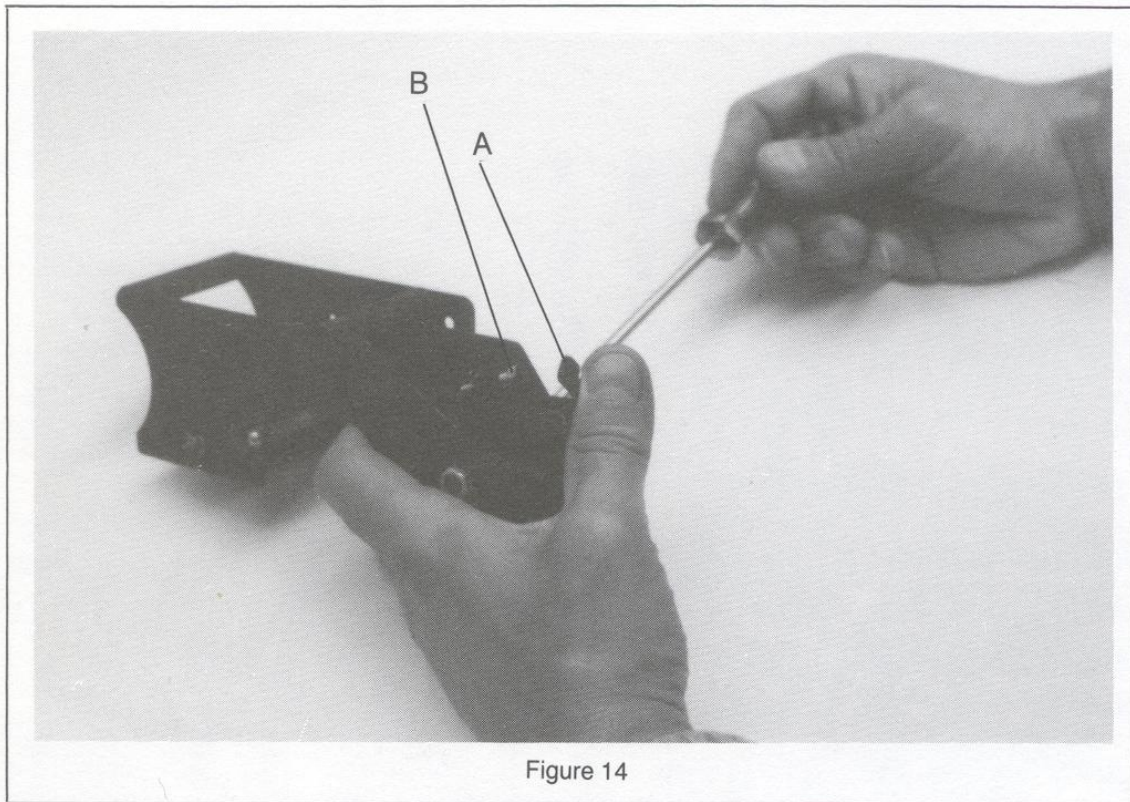


Figure 14

Remove motor and use a screwdriver to turn the cam. Just as the cam follower roller is about to drop off the cam, take hold of the cam follower (a) and allow it to move forward slowly until it hits the bumper screw (b). When this screw is properly set, the unit wheel will stop just before the retaining pawl "clicks" into place on the unit wheel ratchet.

Raise or lower the bumper screw as necessary to achieve proper adjustment. Check your adjustment using ***Combination Test***

Machine Loses Time:

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

- A) **DEFECTIVE MOTOR:** First, make sure the impulse cam is turning. If it is, measure the time of one cam revolution to check for a slow motor.
- B) **EXCESSIVELY WORN UNIT WHEEL:** Remove the wheel and place on a new wheel shaft. Spin the wheel and check for any side to side movement. Also, if the ratchet is loose, or any ratchet teeth are worn or broken off, replace the wheel.

NOTE: WHENEVER A UNIT WHEEL IS REPLACED, BE SURE TO PLACE A SMALL DAB OF MOLYKOTE G-n PASTE IN THE DROP OF THE RATCHET (Figure 15) DO NOT USE PETROLEUM BASED GREASE.

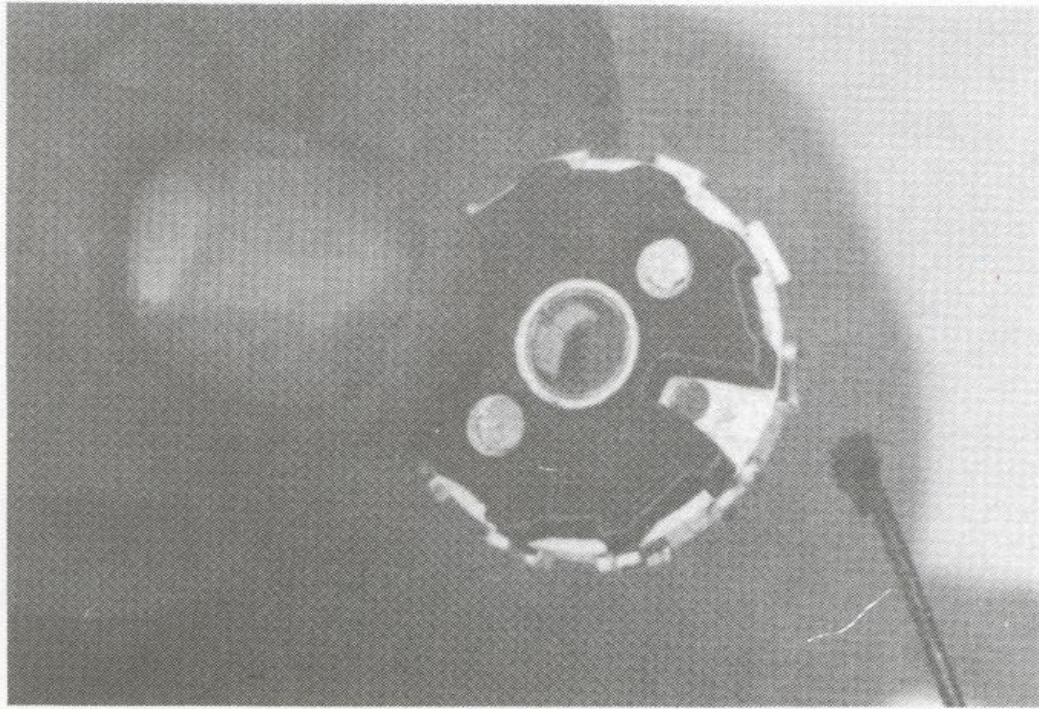


Figure 15

Be sure to check the cam follower for loose or broken parts and replace if necessary. If the wheels do not turn easily, or do not turn at all, remove them and wash in a cleaning solution to remove any residue on the inner hubs. Replace the wheel shaft.

- C) MISALIGNED OR WORN ACTUATING PAWL: A defective actuating pawl may also cause this problem. Check for this condition as follows:
1. Disconnect motor, the set wheel combination "20## DEC 19 PM 11:59".
 2. Disconnect the connecting arm from cam follower.
 3. Pull connecting arm back and observe as actuating pawl teeth fall into ratchets. As you do this, move wheels from side to side to check for excessive play which may prevent tooth from dropping in freely.
 4. Excessive side to side movement of wheels will inhibit proper operation of the actuating pawl assembly. Replace worn wheels as necessary.
- D) WORN RETAINING PAWLS: The easiest way to check for a worn retaining pawl which may cause the machine to lose time is to set the time to "2:22". The bottom of the 2's should be in a straight line. If not, replace the retaining pawl of the wheel that is out of line. This procedure will indicate which pawl is worn excessively and causing a problem. Older machines should be visually checked for signs of wear.

Combination Test:

The following **combination test** checks all the type-wheels at one time for correct bumper screw adjustment, and checks the strength of the return spring.

1. Set wheels to "20## DEC 19 PM 11:59"
2. Turn cam follower through one rotation but do not hold the cam follower this time, as previously described.
3. When the cam follower snaps forward, all retaining pawls should click into place in the ratchet of each wheel. Check this by making sure each wheel is secure. If not, you may have to set the bumper a bit lower.

NOTE: IF ANY WHEELS TURN ONLY HALF WAY, OR NOT AT ALL, REPLACE RETURN SPRING. USE MOLYKOTE G-n PASTE SPARINGLY TO LUBRICATE AREA BETWEEN THE SWING AND THE TYPESECTION. MAKE SURE THE LUBRICANT DOES NOT CONTACT THE WHEEL SHAFT.

Machine Does Not Stamp Or Advance Numbers:

Check for the following conditions:

1. JAMMED TRIGGER: Check trigger return spring. Also look for misaligned guide or trigger top hitting ribbon.
2. OPEN CIRCUIT: Perform visual check for a broken or unattached wire. Make certain that the outlet in which the machine is plugged is "live".
3. DEFECTIVE CIRCUIT BOARD

Blows House Fuses:

If the machine is "shorted out", a house fuse may blow as soon as it is plugged into an outlet. To find a possible "short", perform the following checks:

1. Examine the electrical cord and plug for bare or exposed wires. Replace cord if defective.
2. If a shock is felt, check for a broken or disconnected ground wire (green) located between the top and bottom machine castings.
3. Check for a possible loose or frayed wire that may be touching a metal part of the machine.

Ribbon Does Not Reverse

1. Open machine and check for ribbon which may be worn, torn, or improperly wound on the spools. If the spool hole is "rounded out", then it will not allow the ribbon ratchet to advance the ribbon.
2. If failure is not due to ribbon, then disconnect electrical power cord and remove the bottom access plate.
3. Push the solenoid plunger up and down in order to operate the ribbon mechanism. Visually follow this movement and look for loose or broken springs. Observe ribbon feeler action, proper engagement of ratchets, and movement or bending of slide or toggle lever. Entire toggle assembly may be moved forward or backward by sliding the hex head shoulder screw on which the transport lever pivots (at bottom edge of left ribbon frame side plate).
4. Bend the ear on the ribbon feelers which ride on the ribbon so that when the spool is almost empty, the tip of the feeler (pointed end) engages the tip of the toggle lever. By doing so, the toggle lever is "kicked over" and the ribbon begins to rewind.
5. If above procedure does not correct this condition, replace the ribbon reverse toggle assembly spring.

AR-E WIRING DIAGRAM

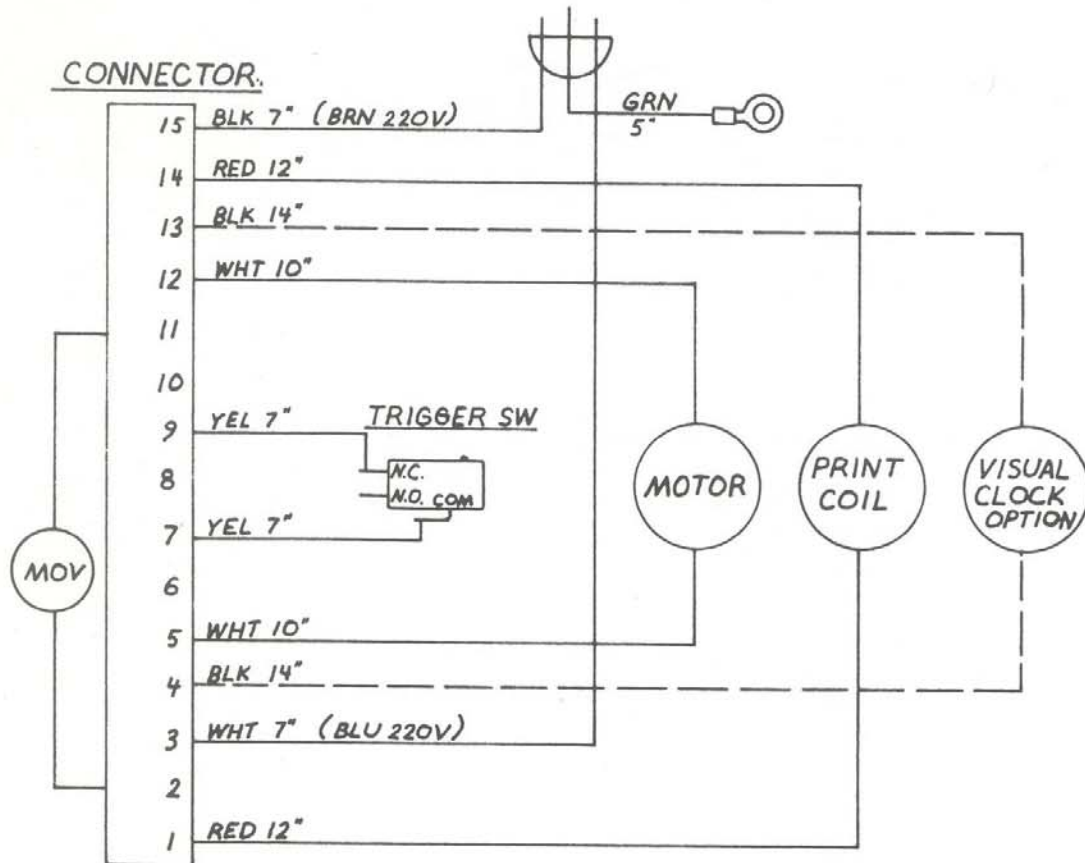


Figure 16A

AR-E w/VISUAL COUNTER WIRING DIAGRAM

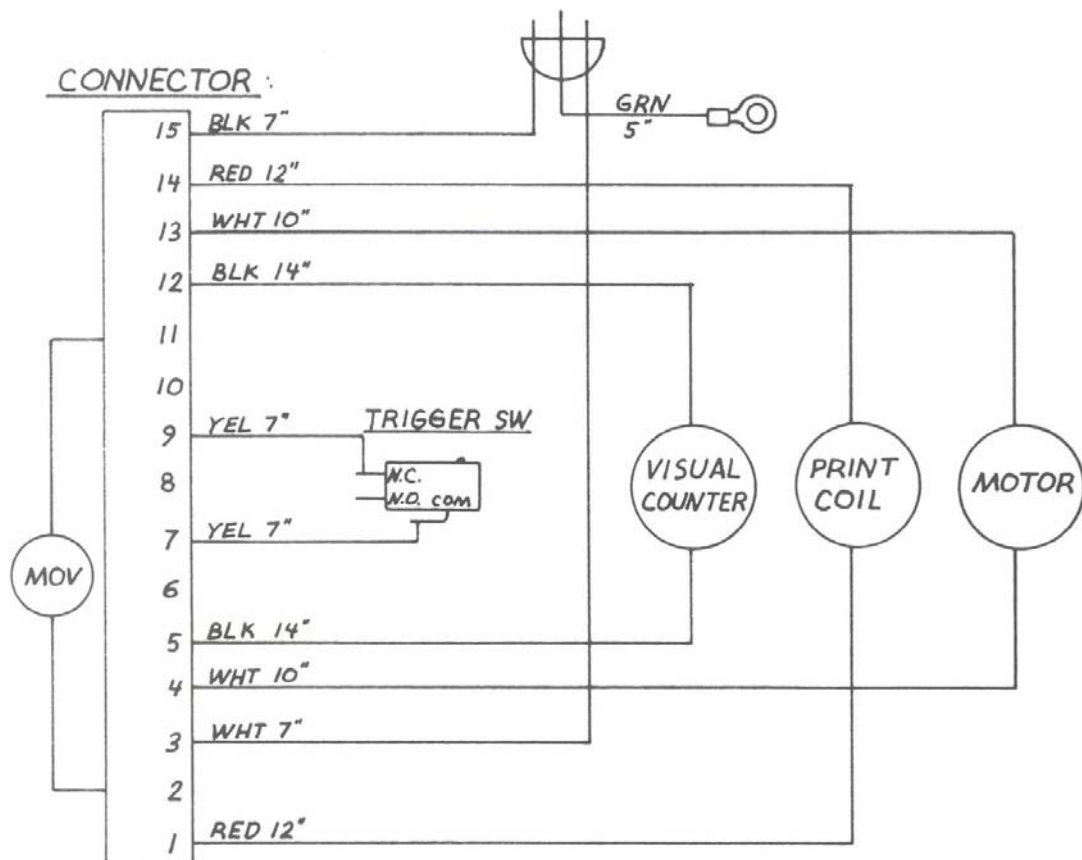
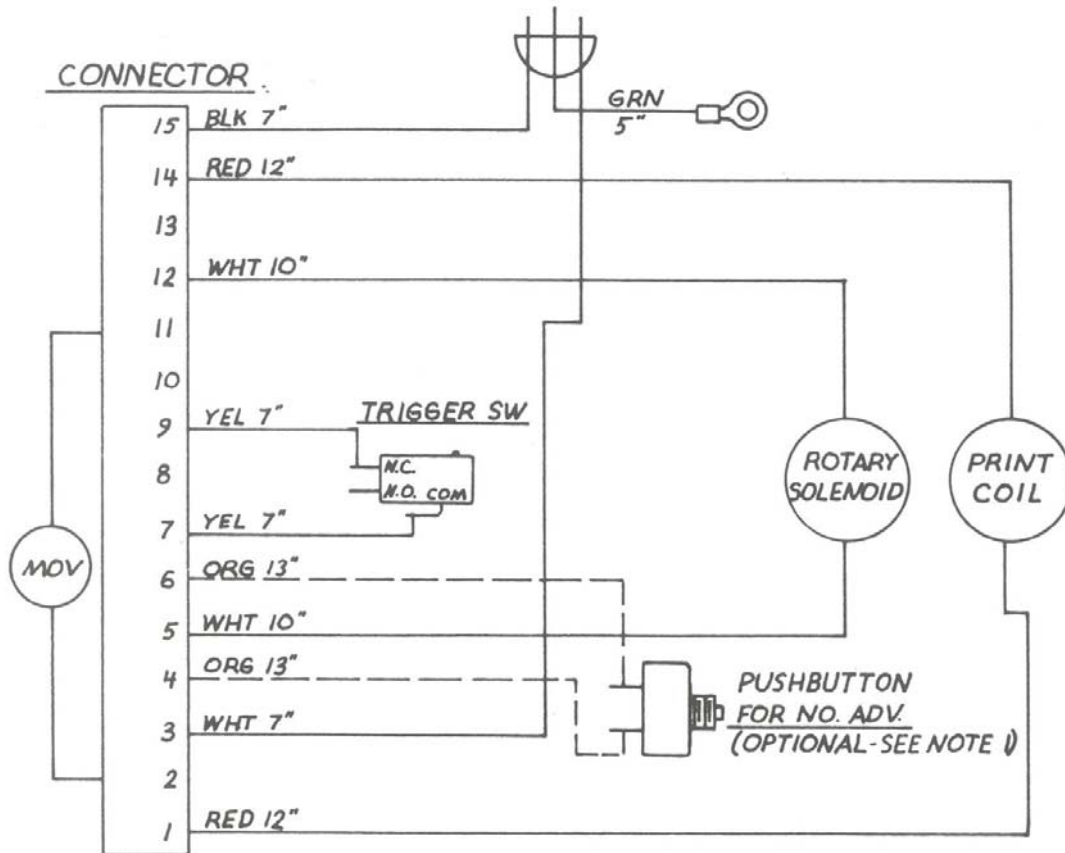


Figure 16B

AN-E WIRING DIAGRAM



NOTE :

1- IF AUTOMATIC NUMBER ADVANCE IS NOT DESIRED,
REMOVE Q4 FROM CIRCUIT BOARD.

Figure 16C

AN-E w/REPEAT SWITCH WIRING DIAGRAM

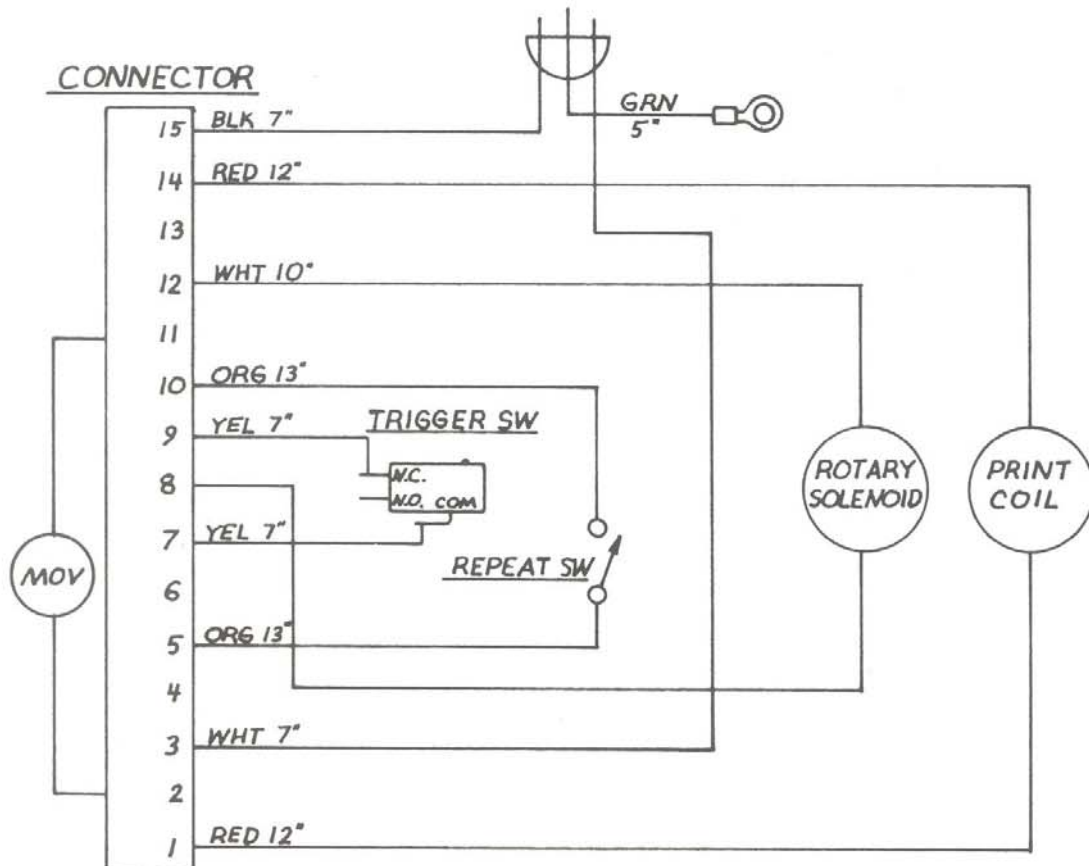
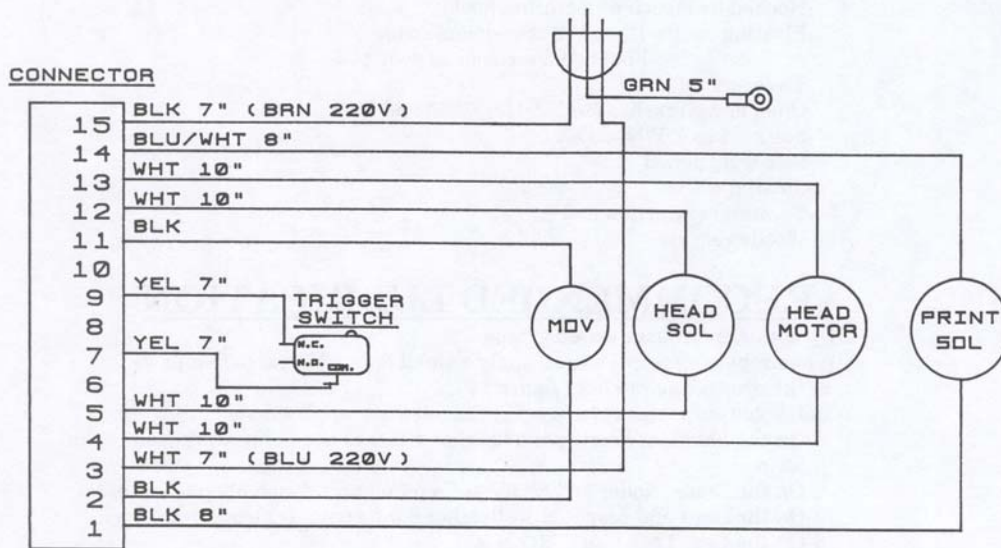


Figure 16D

C724-E WIRING DIAGRAM

C724-E WIRING DIAGRAM



RECOMMENDED TOOLS

- 1/4" Nut Driver
- 1/16" Allen wrench
- Needle nose pliers
- 11/32" Box/open end wrench
- Phillips screwdrivers(1 standard size, 1 small size)
- Rubber hammer
- Prick punch
- Hammer
- Jackknife
- Multi-meter
- Small bench vise (optional)
- Locking pliers
- Hooked tool (such as a crochet hook)
- Floating shafts -1 inside dimension of swing
 -1 outside dimension of swing
- Tweezers
- Open end wrenches (1/4", 5/16", 7/16" and 7/8")
- Solenoid tool, P/N -000607
- Soldering pencil
- Small file
- Terminal extraction tool
- Wooden stylus

RECOMMENDED LUBRICATION

- Do not use petroleum-based grease.
 - When replacing a unit wheel, apply a small dab of Molykote G-n paste in the drop of the ratchet (*figure 21*).
 - Molykote G-n paste is also used in the following applications:
 - 1 - On the Shoulder Screw p/n 2824 that attaches the Connecting Arm to the Swing.
 - 2 - On the Studs, Roller and Shaft on Cam Follower Assembly p/n 1-119.
 - 3 - On the front and rear Ribbon Ratchet Shafts p/n's 1-5635 & 1-5636.
 - 4 - On the Case Lock (p/n 6784) cam.
 - 5 - On the pivot stud of Ribbon Feed Actuator p/n 1-597-1130.
- If wheel shaft or trigger switch assembly requires lubrication, use a small amount of Tri-Flow Lubrication w/Teflon. No other type of lubrication should be used.

Manufacturers of Lubricants:

MOLYKOTE, DOW CORNING CORP., MIDLAND, MICH. 48640

TRI-FLOW, THOMPSON & FORMBY INC., MEMPHIS, TN 38117

MOLYKOTE is also available from:

RAPIDPRINT INC., 2055 S. MAIN STREET, MIDDLETOWN, CT 06457
P/N: -000002

REPLACEMENT SPACERS

FOR ACTUATING PAWL SHAFT p/n 2701

<u>P/N</u>	<u>WIDTH</u>	<u>O.D.</u>	<u>HOLE DIA</u>	<u>P/N</u>	<u>WIDTH</u>	<u>O.D.</u>	<u>HOLE DIA</u>
138	.310	1/4	.096	299-2	.002	1/4	.109
141	.080	"	"	299-5	.005	"	"
142	.100	"	"	299-10	.010	"	"
143	.109	"	"	299-15	.015	"	"
144	.125	"	"	2306-25	.025	"	"
148	.193	"	"	2306-50	.050	"	"
149	.202	"	"	2306-100	.100	"	"
151	.254	"	"	2306-200	.200	"	"
152	.265	"	"	2306-250	.250	"	"
153	.361	"	"				

FOR RETAINING PAWL SHAFT p/n 2682

<u>P/N</u>	<u>WIDTH</u>	<u>O.D.</u>	<u>HOLE DIA</u>	<u>P/N</u>	<u>WIDTH</u>	<u>O.D.</u>	<u>HOLE DIA</u>
138-100	.310	1/4	.128	147-100	.177	1/4	.128
139-100	.030	"	"	148-100	.193	"	"
141-100	.080	"	"	149-100	.202	"	"
142-100	.100	"	"	150-100	.236	"	"
143-100	.109	"	"	151-100	.254	"	"
144-100	.125	"	"	152-100	.265	"	"
146-100	.140	"	"	153-100	.361	"	"

FOR WHEEL SHAFT p/n 2526

<u>P/N</u>	<u>WIDTH</u>	<u>O.D.</u>	<u>HOLE DIA</u>	<u>P/N</u>	<u>WIDTH</u>	<u>O.D.</u>	<u>HOLE DIA</u>
295-5	.005	5/16	.188	297-30	.030	1/2	.188
295-10	.010	"	"	297-50	.050	"	"
295-30	.030	"	"	296-5	.005	3/4	"
297-2	.002	1/2	"	296-10	.010	"	"
297-5	.005	"	"	296-20	.020	"	"
297-10	.010	"	"				

MAINTENANCE

CHANGING RIBBON

To Remove Ribbon (*figure 17*)

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

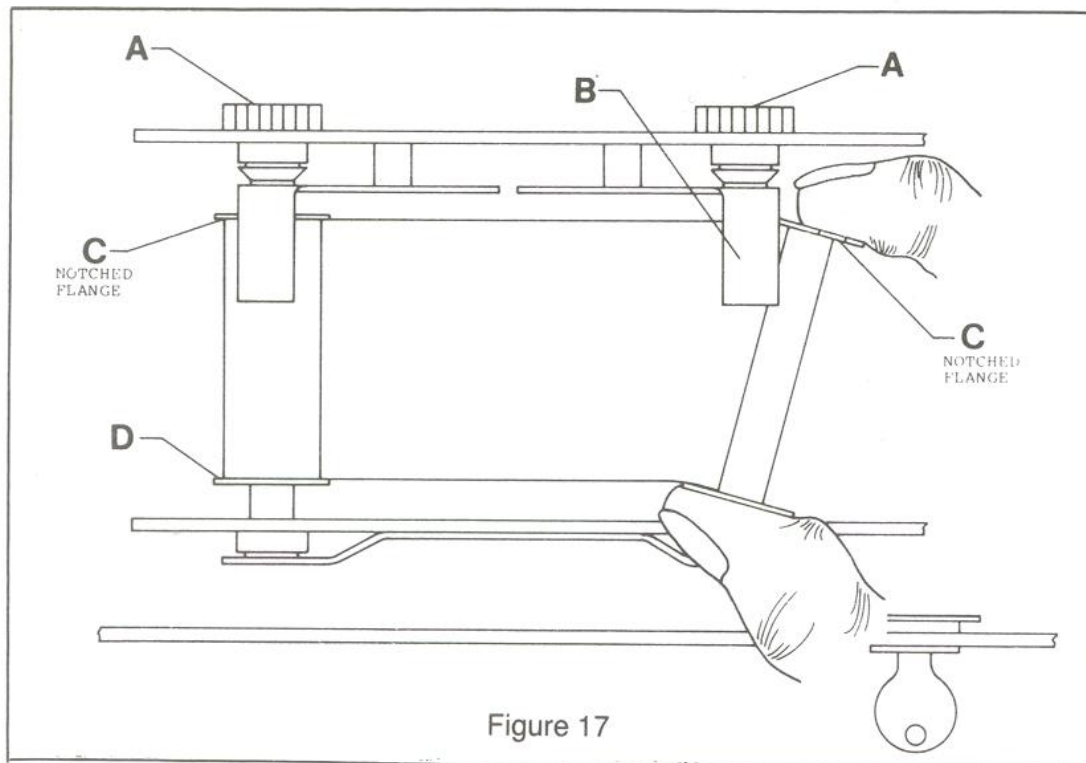
Unlock the machine and raise the top cover until it is fully open. Turn the machine sideways so that the lock is facing the operator.

Turn one of the ratchet wheels (A) one revolution to create slack in the ribbon. Lifting the ribbon feeler (B) out of the way, place your index finger behind spool flange (C). Applying pressure towards operator, swing ribbon spool away (*figure 17*). Repeat operation for other side. Discard ribbon.

WARNING: NEVER ATTEMPT TO RE-INK RIBBON. THIS WILL CLOG THE WHEELS, CAUSE AN OPERATIONAL FAILURE AND WILL VOID THE GUARANTEE.

Installing New Ribbon (*figure 17*)

Hold onto the ribbon spools so that notched flange (C) faces ratchet wheel (A). Starting with spool closest to front of machine, insert flange (D) onto spring loaded stud. Lifting ribbon feeler, position notched flange (C) into place until spool is trapped between studs- rotating spool slightly may be necessary. Install remaining ribbon spool by slipping ribbon under feeler (B) and repeating installation procedure. Turn one of the ratchet wheels (A) providing enough tension to flatten ribbon.



Removal Of Typesection Assembly:

NOTE: UNPLUG THE MACHINE FROM THE WALL OUTLET.

- Remove ribbon frame assembly and base plate/circuit board assembly-pulling circuit board free of connector.
- Disconnect motor leads from terminals 5 and 12 of connector.
- Remove lower mounting screw and take hold of typesection as you remove upper mounting screw.

Disassembling Typesection:

Date and Time Stamps (AR-E, ARC-E):

The following instructions are for your general information - to be used when it is necessary to remove or replace a worn part.

Motor:

- Loosen mounting screws.
- Pull motor from frame, turning it slightly to line up pin with notch in frame.

Connecting Arm:

- Remove "E" ring that holds arm to cam follower.
- Referring to **figure 18** , remove shoulder screw that fastens connecting arm to swing by pushing swing assembly towards rear of frame until shoulder screw is in alignment with hole in side of frame. Shoulder screw can then be removed using a small screwdriver.

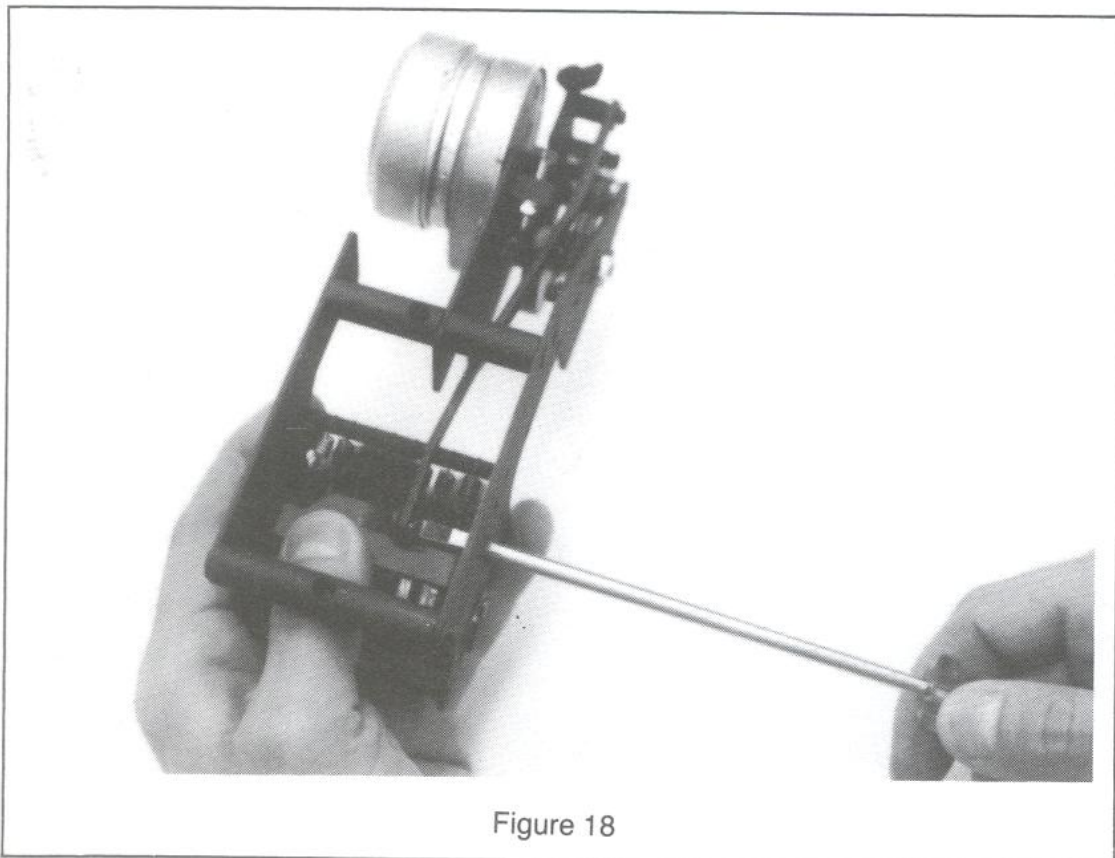
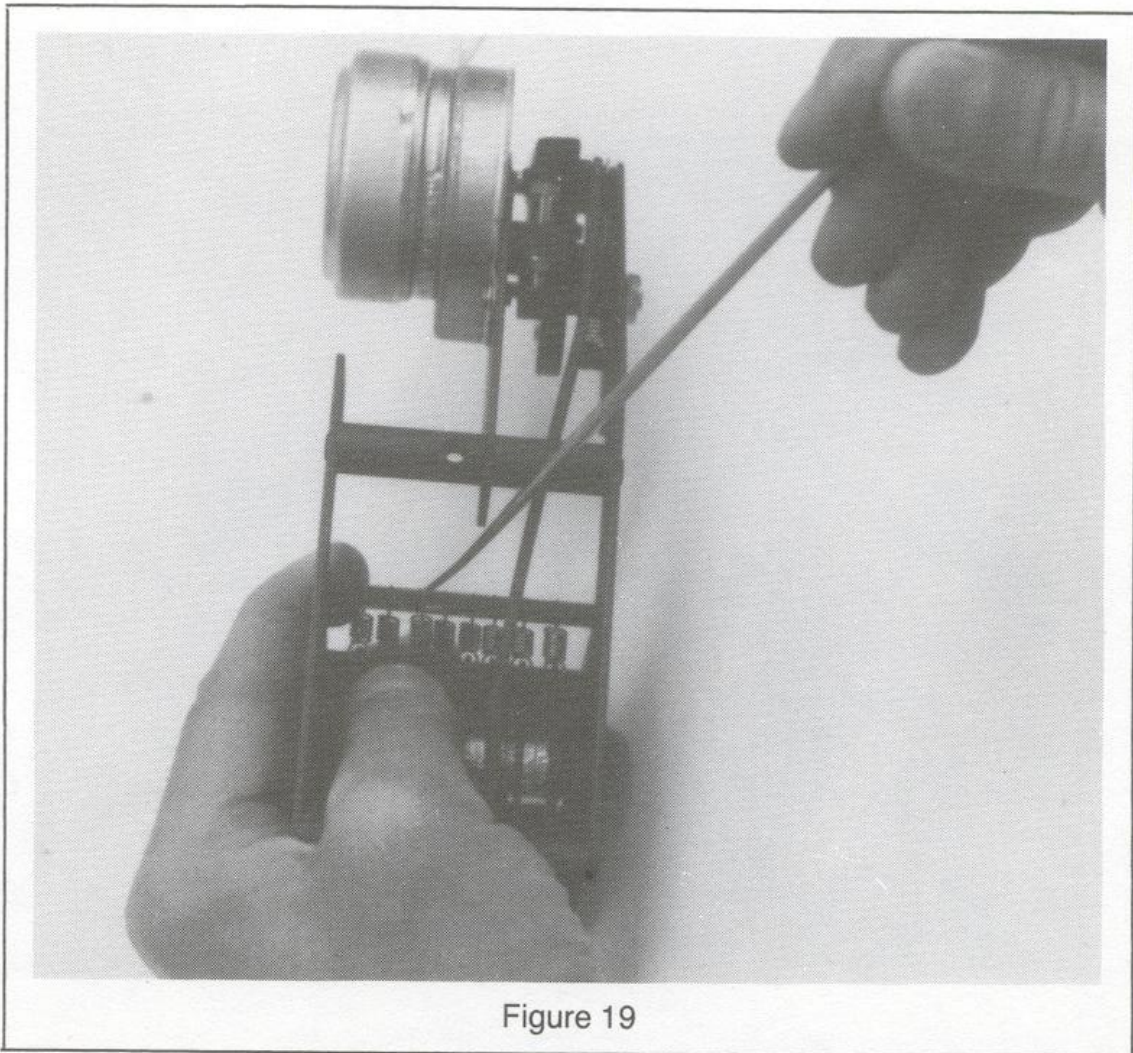


Figure 18

Retaining Pawl Springs:

-Use a hooked tool (as shown in **figure 19**) to first remove end of spring attached to the threaded shaft, then remove the end attached to the retaining pawl.



NOTE: SPRINGS ARE COLOR CODED. BE SURE TO REINSTALL EACH SPRING IN ITS CORRECT LOCATION (SEE TABLE I).

Retaining Pawl And Retaining Pawl Shaft:

-Remove one of two "E" rings securing the shaft.
-Tap shaft so it protrudes from one side of frame. Turn shaft as you pull it outward, allowing pawls to drop.

Wheels And Swing Assembly:

NOTE: TO ALLOW REMOVAL OF WHEELS AND SWING AS ONE UNIT, IT IS BEST TO USE A "FLOATING SHAFT". THIS IS MADE BY CUTTING AN OLD WHEEL SHAFT TO EXACT OUTSIDE DIMENSIONS OF SWING.

-Loosen wheel shaft locking screw and disengage retainer.
-Use "floating shaft" to push out existing shaft, allowing swing to fall free of frame. (Push from side of frame opposite retainer **figure 20**).

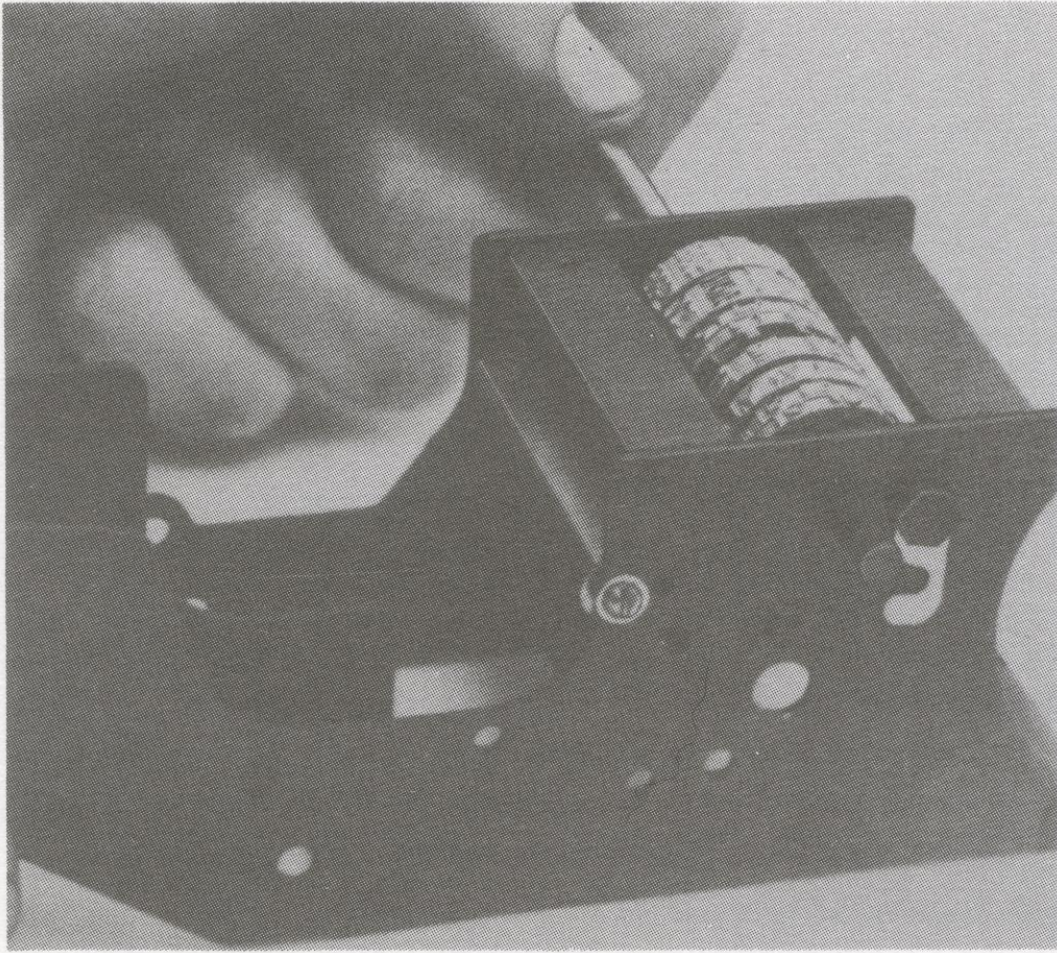


Figure 20

TABLE I
RETAINING PAWL SPRINGS
Color Coded Breakdown

<u>Typewheel</u>	<u>Retaining Pawl Spring</u>	<u>Color Code</u>
Model AR-E		
Unit of Minutes Wheel	36 oz. Spring P/N 980-36	Green
Tens Minute Wheel	21 oz. Spring P/N 980-21	Black
Hour Wheel	21 oz. Spring P/N 980-21	Black
AM-PM Wheel	21 oz. Spring P/N 980-21	Black
0-9 Date Wheel	36 oz. Spring P/N 980-36	Green
1-2-3 Date Wheel	21 oz. Spring P/N 980-21	Black
Month Wheel	60 oz. Spring P/N 980-60	Silver
Year Wheel	60 oz. Spring P/N 980-60	Silver
Model AD-E		
All Wheels	60 oz. Spring P/N 980-60	Silver
Model AN-E		
All Wheels	36 oz. Spring P/N 6840-36	Yellow
Model ADN-E		
0-9 Number Wheels	36 oz. Spring P/N 6840-36	Yellow
All Date Wheels	60 oz. Spring P/N 980-60	Silver
Model ARMT-E		
Unit of Minutes Wheel	21 oz. Spring P/N 980-21	Black
Tens Minute Wheel	21 oz. Spring P/N 980-21	Black
Hour Wheel	60 oz. Spring P/N 980-60	Silver
Hour Wheel (13-23)	60 oz. Spring P/N 980-60	Silver
Year Wheel	60 oz. Spring P/N 980-60	Silver
Month Wheel	45 oz. Spring P/N 980-45	Blue
0-9 Date Wheel	21 oz. Spring P/N 980-21	Black
1-2-3 Date Wheel	36 oz. Spring P/N 980-36	Green

Actuating Pawl Assembly:

- Note location of spacers on shaft for reinstallation.
- Push protruding end of shaft through swing and pull out flared end, removing shaft completely from swing.
- Pull actuating pawl assembly free of swing.

Cam Follower:

- Use needle nose pliers to remove return spring.
- Remove 5/16 hex nut that secures cam follower shaft, and unscrew shaft.
- Pull cam follower free.

Changing A Unit Wheel:

NOTE: THE FOLLOWING PROCEDURE CAN BE USED TO CHANGE ANY RAPIDPRINT TYPE WHEEL. REMEMBER, IT IS IMPORTANT TO CAREFULLY REINST ALL SPACERS TO MAINTAIN ORIGINAL WHEEL SPACING.

- UNPLUG MACHINE FROM WALL OUTLET.
- Disconnect motor leads and remove the typesection assembly. Also, remove die plates, if any. Note location of spacing paper between frame and die plate.
- Remove connecting arm.
- Disconnect all retaining pawl springs (noting location for reassembly).
- Loosen the wheel shaft locking screw and slide the retainer free.
- Use an extra wheel shaft and push the existing one through the side of the frame *opposite* the retainer (**figure 20**).

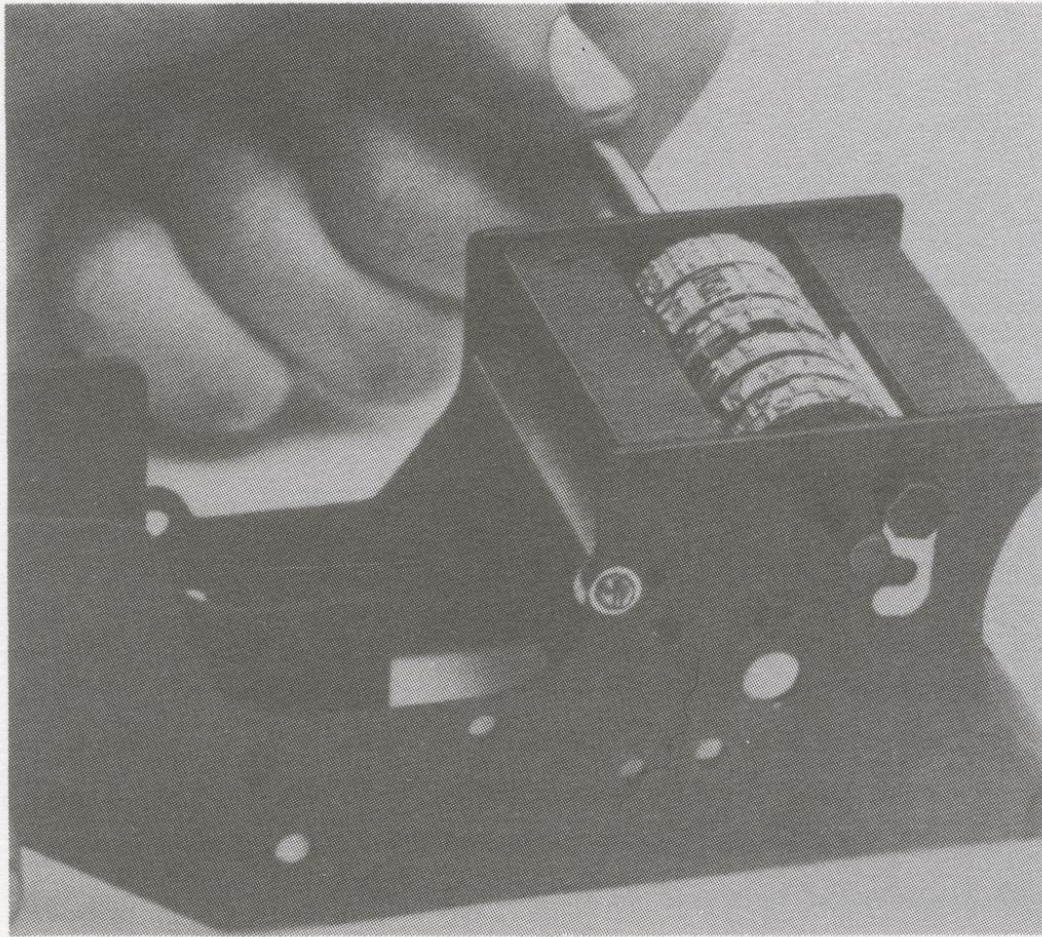


Figure 20

- When you have pushed it far enough, (before it reaches the unit wheel) pull the old shaft out slowly and the unit wheel should drop out.
- Note the location of any spacers that may drop out. They should be reinstalled in the same position when installing a new wheel. Remember, a dab of [Molykote G-n](#) paste should be applied to the drop of the new unit wheel ratchet before installation (*figure 21*).

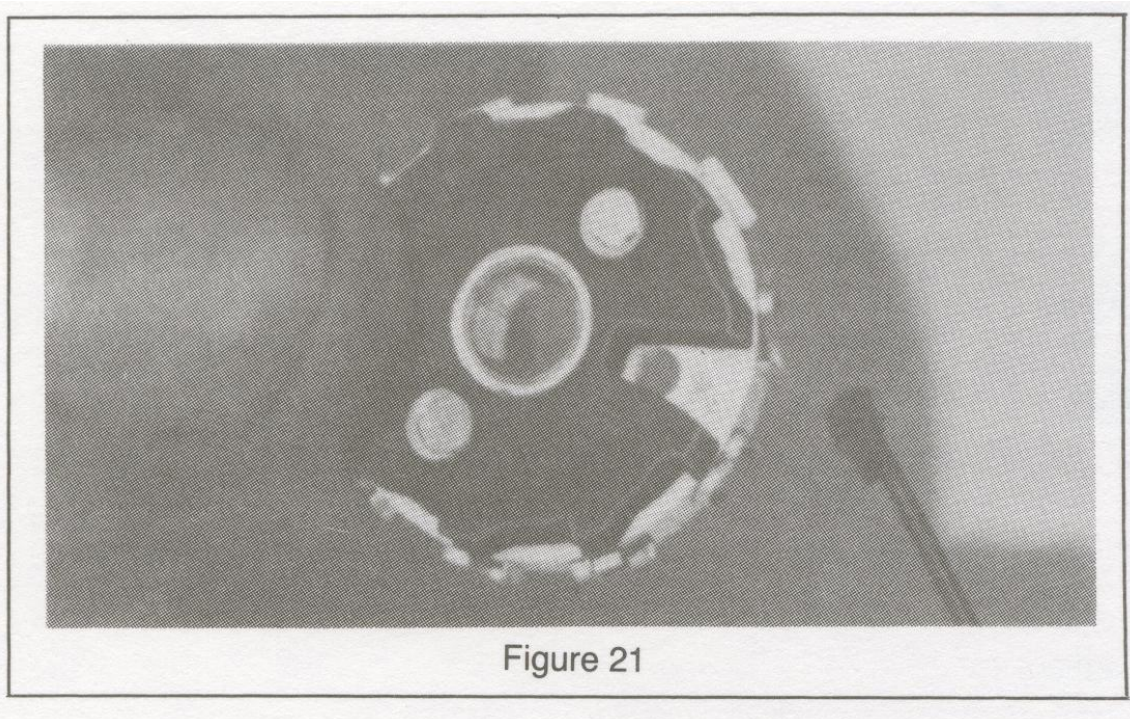


Figure 21

Disconnecting Type-section Wires

For changing motor or rotary solenoid, the cutting and splicing of wire leads is acceptable. (Solder-less splices are available from Rapidprint; P/N 5491-1 or you may purchase Scotchlok #558 from your local supply house). Simply, clip the wire leads, and remove type-section mounting screws and proceed with installation of new type-section. Follow standard splicing techniques.

NOTE: MOTOR AND ROTARY SOLENOID LEADS ARE LOCATED IN 5TH AND 12TH CONNECTING SLOTS.

ALTHOUGH, THE USE OF A PAPER CLIP IS ACCEPTABLE AS SHOWN IN *figure 22*, PLEASE TAKE CARE NOT TO DAMAGE THE CONTACTS.

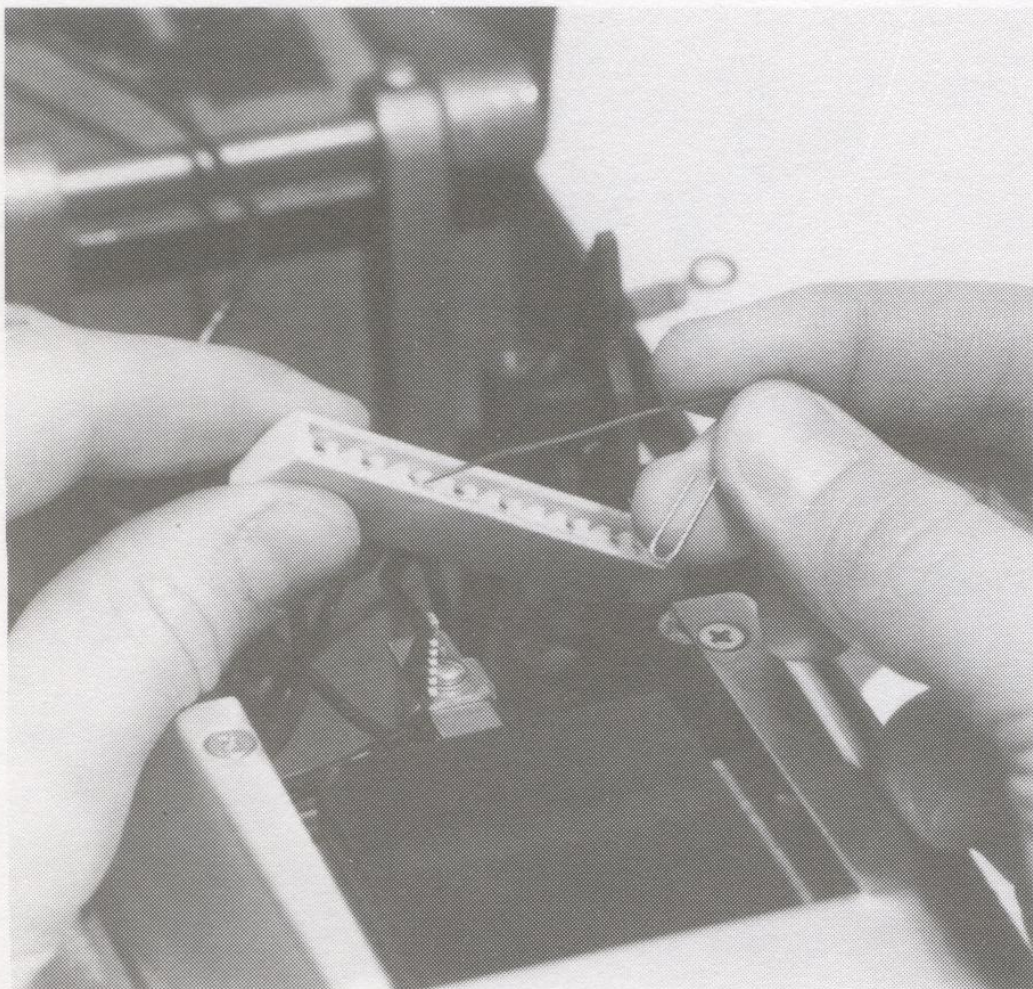


Figure 22

WE RECOMMEND PURCHASING AN EXTRACTION TOOL FOR EASE OF SERVICING. YOU MAY OBTAIN THE TOOL SHOWN IN *figure 23* FROM:

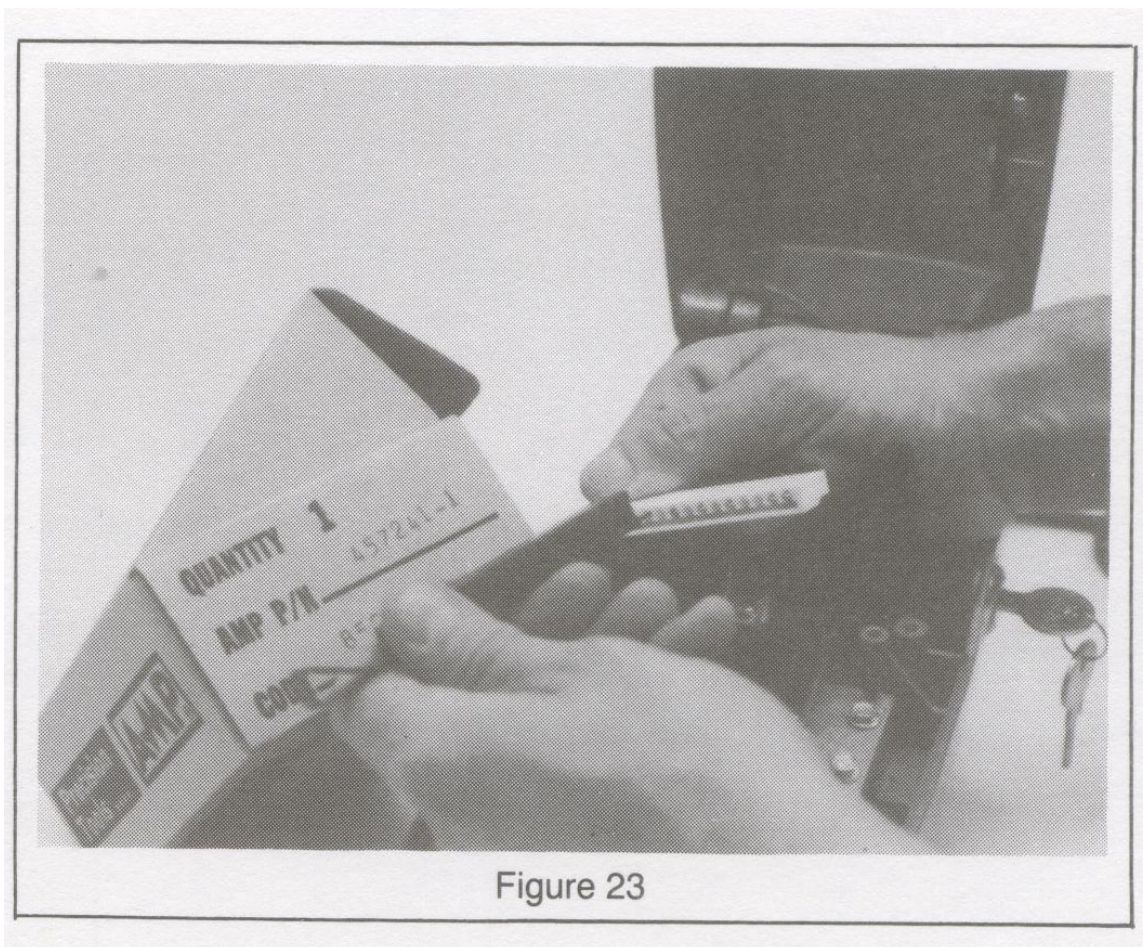


Figure 23

AMP Incorporated
Eisenhower Boulevard
Harrisburg, Pennsylvania 17105
Order P/N 457241-1 (be sure to request full instructions)

WHEN REINSTALLING LEADS INTO THE CONNECTOR, YOU MUST LIFT THE SMALL TAB APPROXIMATELY 30 DEGREES. THIS WILL ENSURE THAT IT WILL HOLD FIRMLY IN THE TERMINAL CONNECTOR WHEN REINSTALLED (*figure 24*).

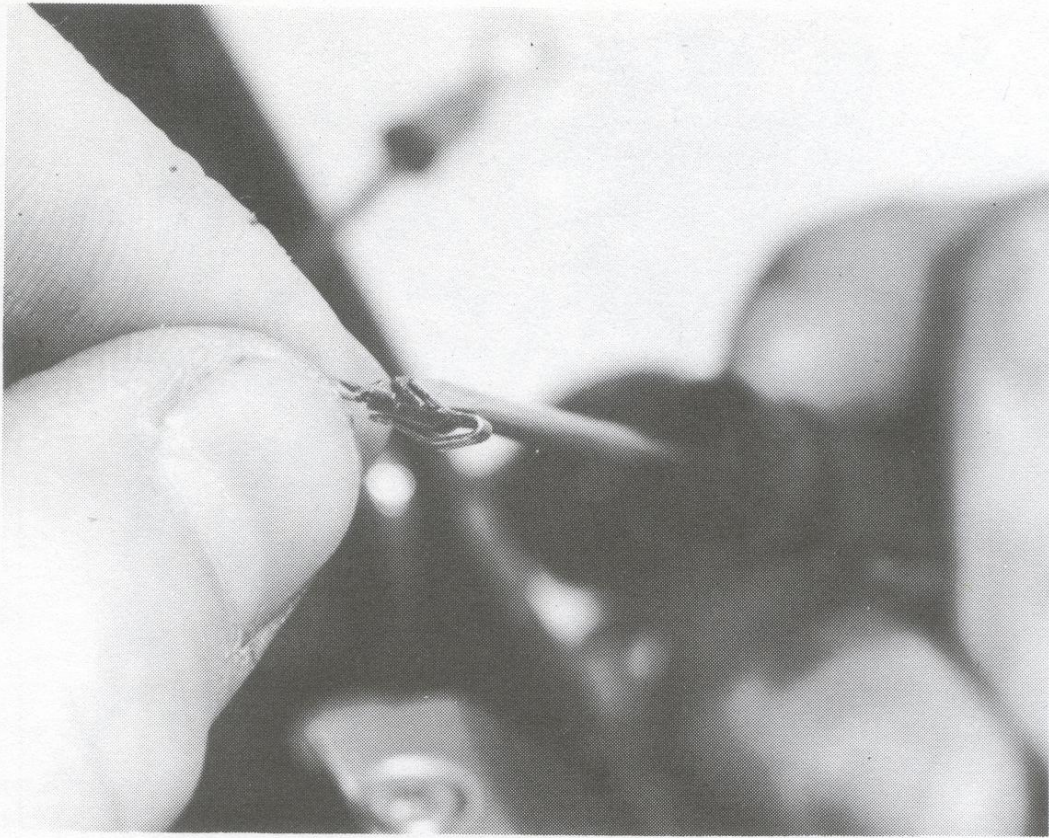


Figure 24

Disassembling Typesection:

Numbering Machines (AN-E, ADN-E):

The following instructions are to be used when it is necessary to remove or replace a worn part.

Rotary Solenoid (*figure 25*) NOT RECOMMENDED ON FIELD REPAIRS

- Remove return spring.
- With printing wheels face down, move actuating pawl swing forward.
- Using a thin punch (an old actuating pawl shaft (a) will do), tap the roll pin out. (Remove "E" ring (d) that secures the connecting arm if interfering with procedure.)
- Loosen set screw (b) located on solenoid hub.
- Remove the two hex nuts securing the rotary solenoid and pull solenoid out.
- Insert new rotary solenoid and fasten with the two hex nuts.
- Turn rotary solenoid's disc clockwise as far as it will go and hold.
- With thumb of free hand, move actuator arm assembly (c) forward slowly until wheel "clicks". Also make sure that hub of actuator arm assembly is about .050 away from the frame plate. At this setting (w/rotary solenoid's disc still completely turned clockwise) tighten set screw (b) located on solenoid hub.
- Turn frame over and back off bumper stop (e) until the screw head touches actuator arm assembly tab. This acts as a convenient holding fixture for the next step.
- Using a 1/8 drill, drill into existing hole on hub and through the shaft of the solenoid.
- Insert a 1/8 Dia. x 9/16 roll pin into hole and drive into place.
- Reinstall connecting arm, "E" ring and return spring.
- Lower bumper stop screw (e) so that , while moving actuator arm assembly, wheel is just short of "clicking" into place.

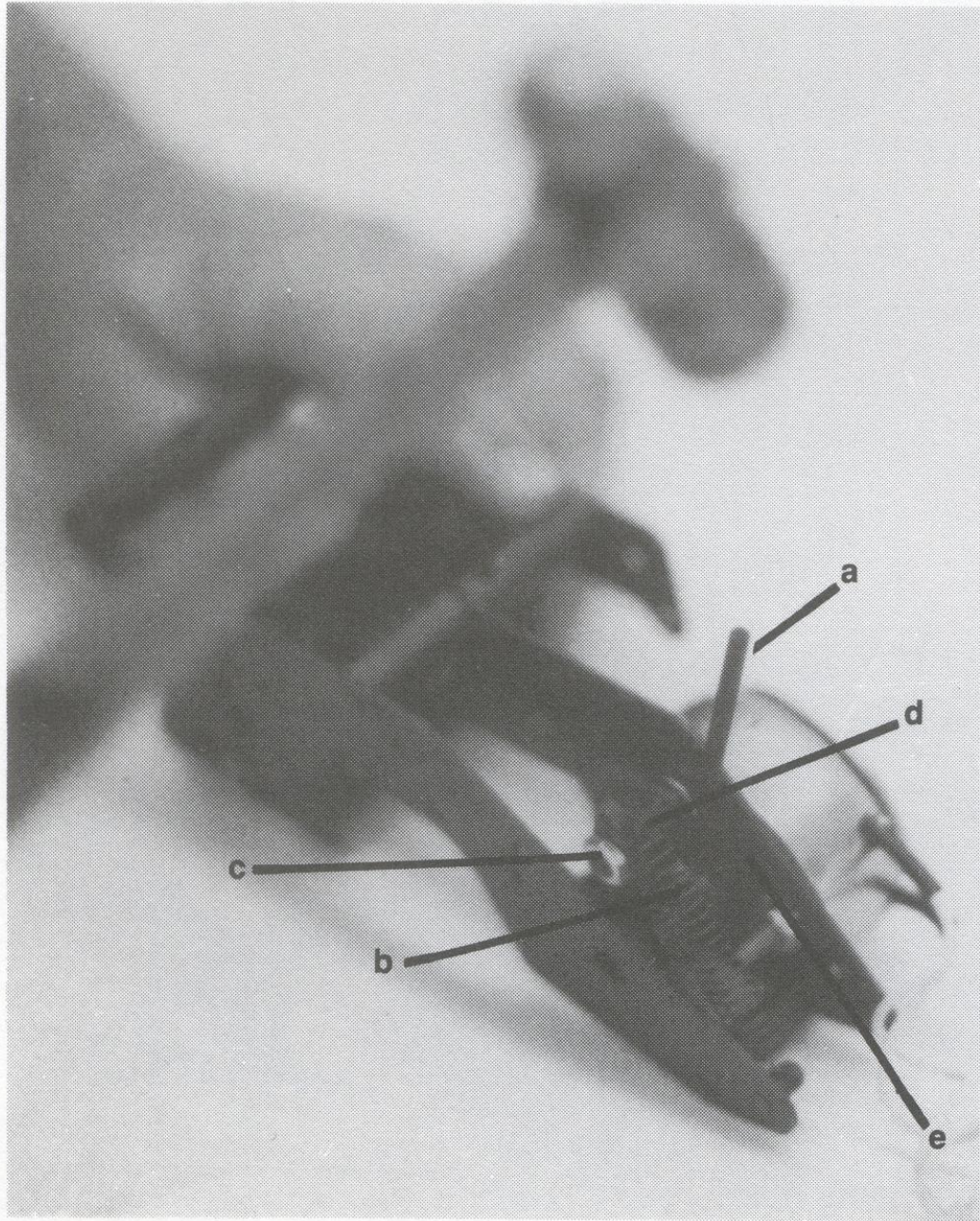


Figure 25

Retaining Pawls And Retaining Pawl Shaft:

- Remove one of the two "E" rings securing the shaft.
- Tap the shaft so it protrudes from one side of the frame. Take hold and turn as you pull it out, allowing the pawls to fall out.

Wheels And Swing Assembly:

To allow the removal of the wheels and swing as one unit, it is best to use a "floating shaft". This is made by cutting an old wheel shaft to the exact outside dimensions of the swing. Use this "floating shaft" to push out the existing shaft until the swing falls free of the frame.

- Loosen wheel shaft locking screw and disengage retainer.

-Use "floating shaft" to push out existing shaft, allowing swing to fall free of frame. Push from side of frame opposite retainer (**figure 20**).

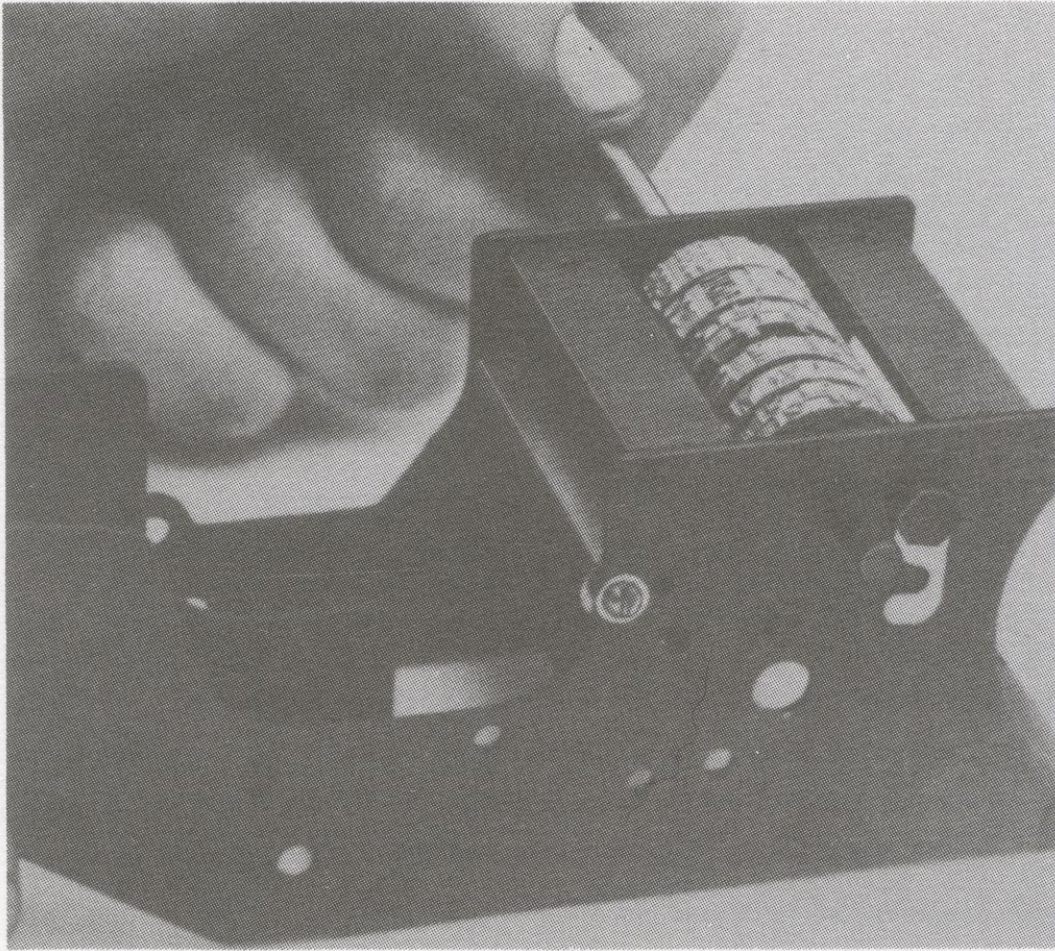


Figure 20

Actuating Pawl Assembly:

- Remove the actuating pawl shaft from swing (one end of this shaft is flared out and it can only be removed from one end).
- Pull actuating pawl assembly free.

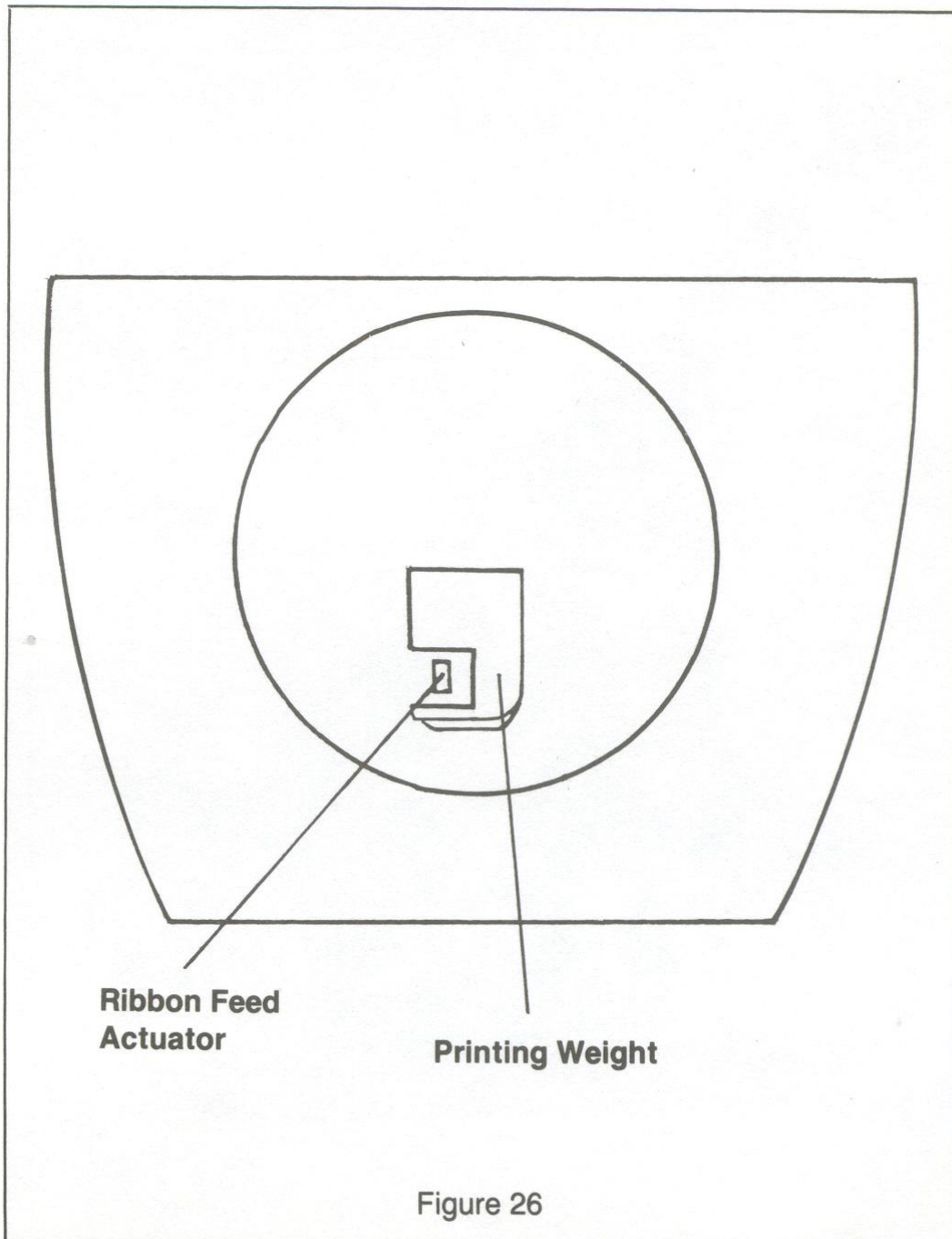
Disassembling Bottom Frame:

Removal Of Ribbon Frame Assembly:

- Remove ribbon frame mounting screws.
- Carefully lift assembly upward and out.

Removal Of Solenoid Frame Assembly:

- Remove stainless steel paper shelf.
- Remove solenoid frame mounting screws.
- Lift right side of frame to disengage bottom of printing weight from ribbon feed actuator (**figure 26**).
- Lift out printing weight.
- Remove the four wires from connector and lift out the assembly.



Installation Of Solenoid Frame Assembly:

(Assumes trigger and switch are in place.)

- Place frame in casting with right side of casting raised up.
- Pivot ribbon feed actuator upward 3/4" to engage with printing weight (*figure 27*).
- Lower solenoid frame to engage ribbon feed actuator.
- To check engagement, move printing weight up and down. Ribbon feed actuator will pivot at the same time if properly engaged.
- Install solenoid frame mounting screws (tighten to 25 in-lbs).

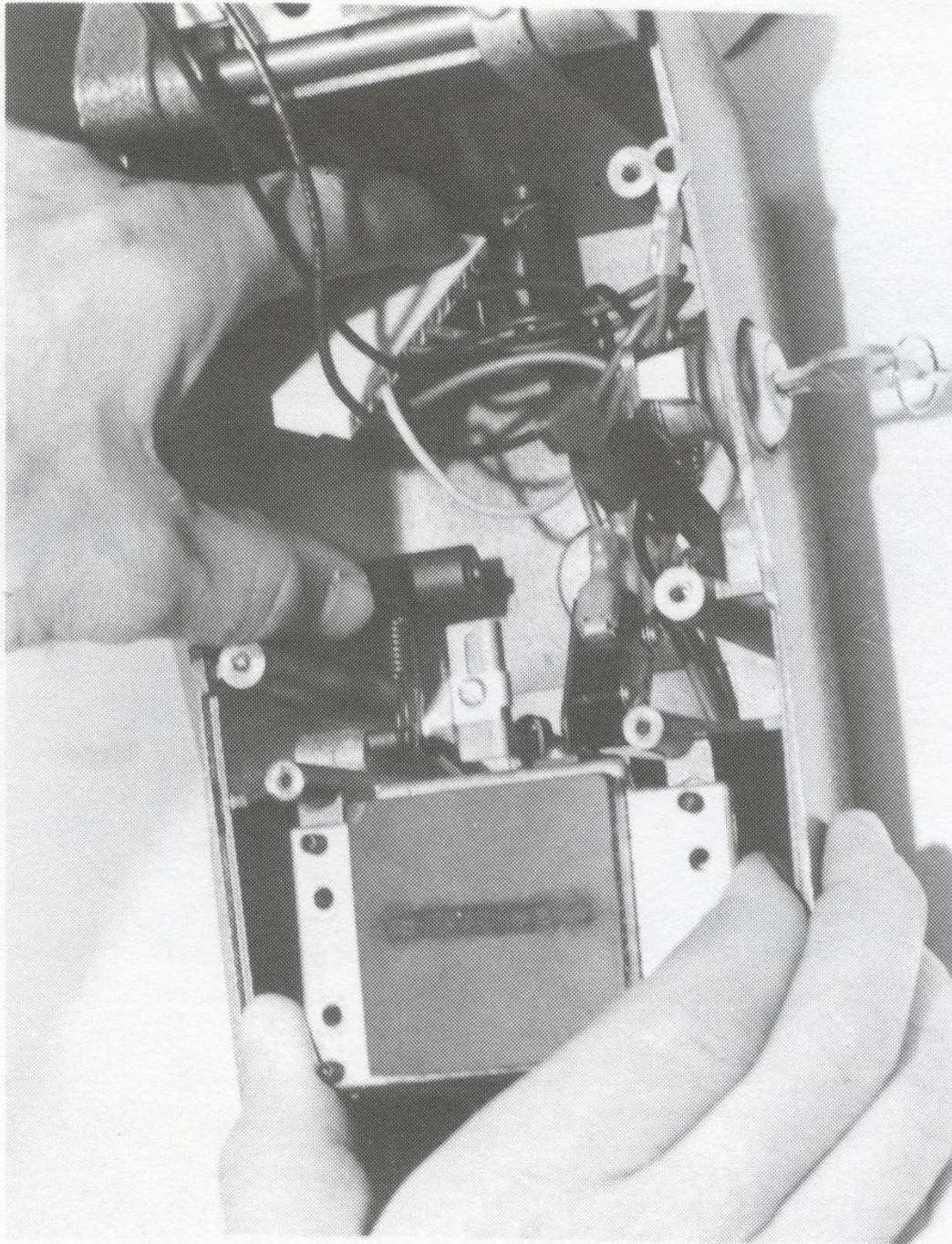


Figure 27

Replacing Trigger And/Or Switch:

- Remove solenoid frame mounting screws.
- Lift right side of solenoid frame to disengage ribbon feed actuator assembly from printing weight, lift out solenoid frame.
- Remove support plate mounting screws (*figure 28*).
- Remove yellow leads from COM and NC terminals of the switch.
- Remove switch mounting screws.
- Remove trigger shaft using locking pliers.
- The trigger will pull free at this point. Remove carefully, being sure that trigger return spring does not drop off. Be sure that spring is in correct location when reinstalled (*figure 29*).

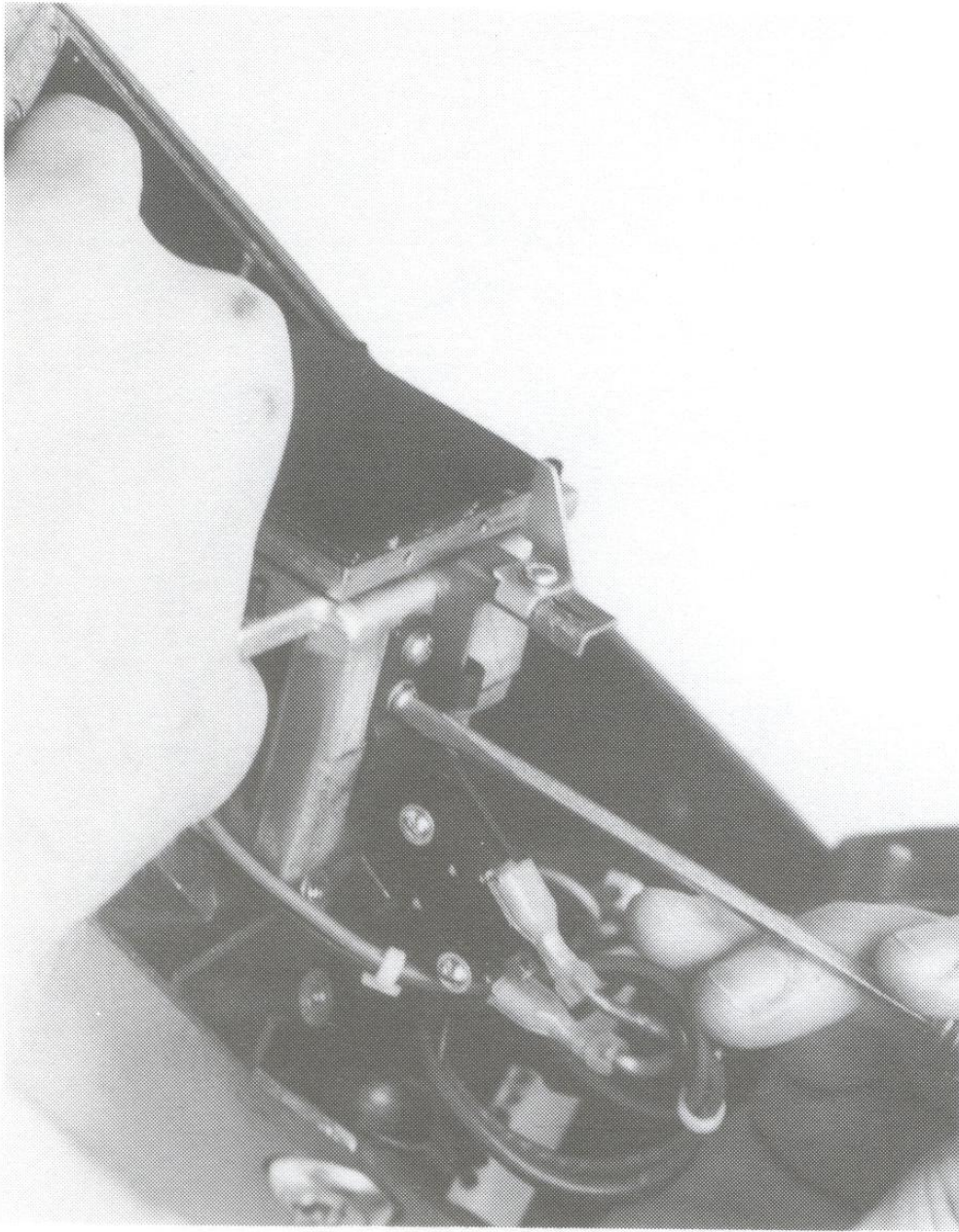


Figure 28

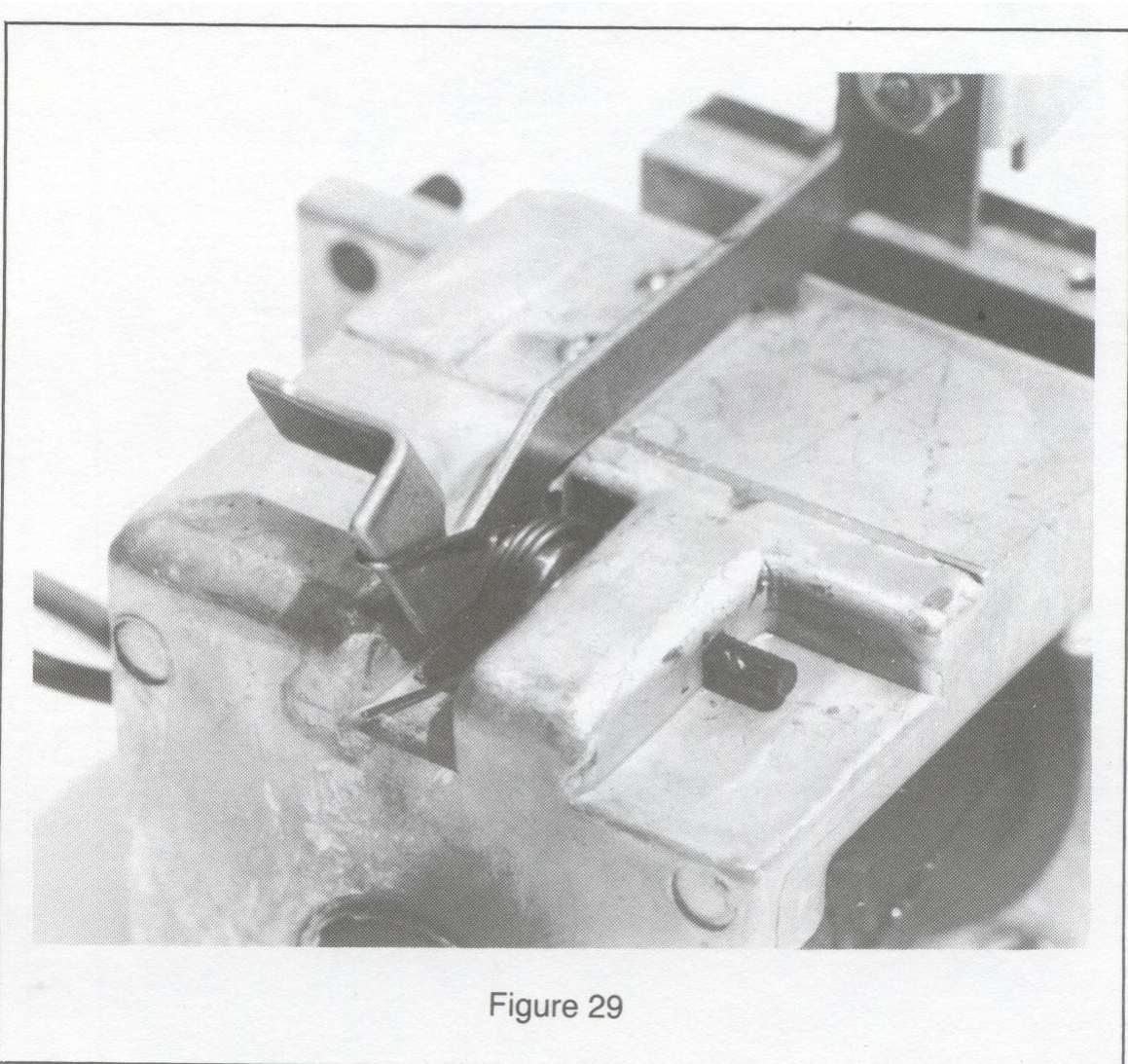


Figure 29

Print Coil:

-Remove the brass plunger guide. Rapidprint tool #607T-1 is available for this purpose upon request (*figure 30*). Turn the frame upside down and insert the narrower end of the tool into the plunger guide. Tap with a hammer until the plunger guide protrudes from the top of the frame sufficiently to take hold and pull it out.

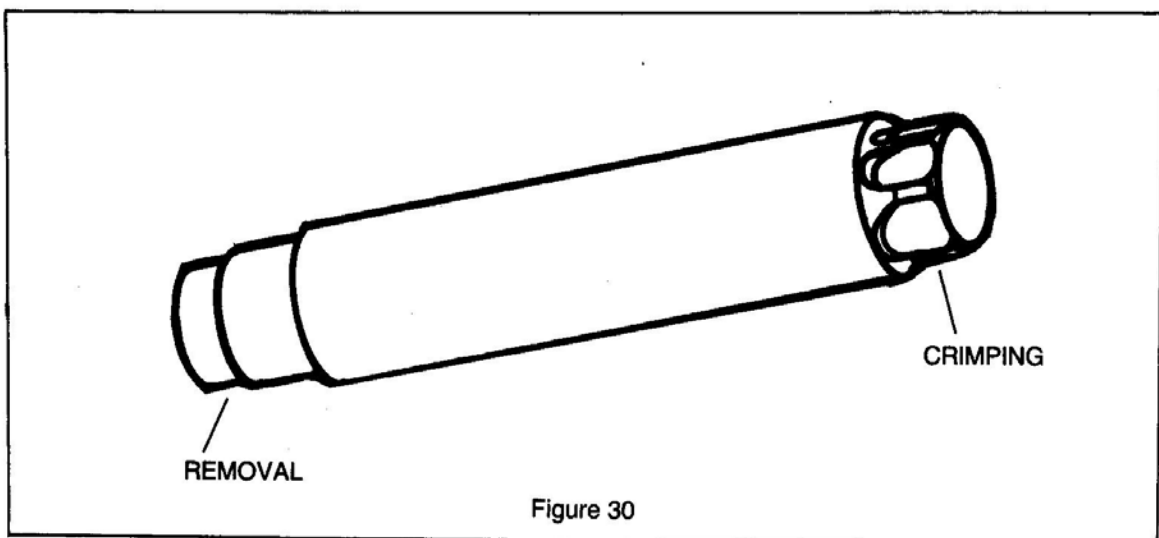


Figure 30

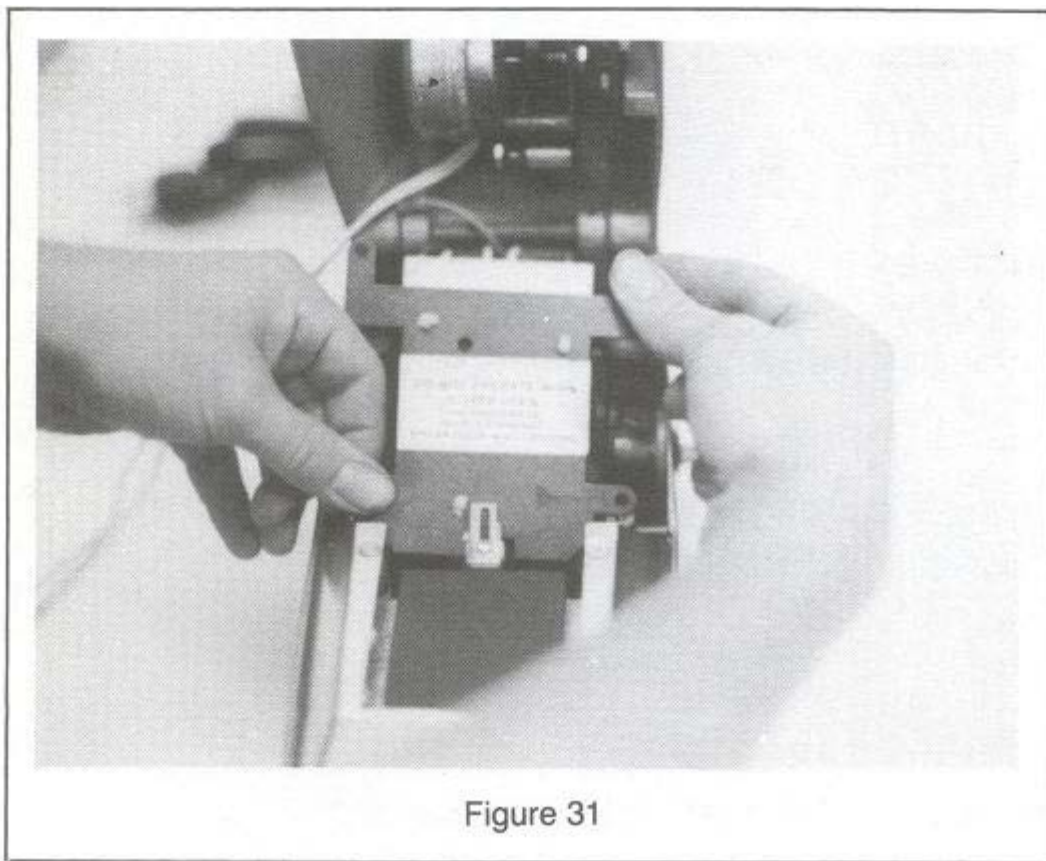
Disassembling Bottom Frame (continued):

When reinstalling the plunger guide, be sure it is exactly in line with the bottom of solenoid frame before forcing it into place. Otherwise, you may bend the end of the plunger guide. When plunger guide is in place, use the *crimped end* of the #607T-1 tool to crimp and secure guide into place. If you are reinstalling plunger guide, it will first be necessary to file the crimped end to ensure easy reinstallation.

NOTE: BE SURE TO NOTE THE LOCATION OF THE CARDBOARD INSULATORS. THEY SHOULD BE REINSTALLED IN THE SAME POSITION.

Removal Of Circuit Board:

- Remove ribbon frame mounting screws and ribbon frame assembly.
- Lift rear of base plate and pull toward rear of machine and upward until it is clear of the trigger assembly (*figure 31*).



- Holding connector firmly, disconnect base plate/circuit board assembly.
- Using needle nose pliers, depress the tips of the white standoffs (*figure 32*). Circuit board will pull free.

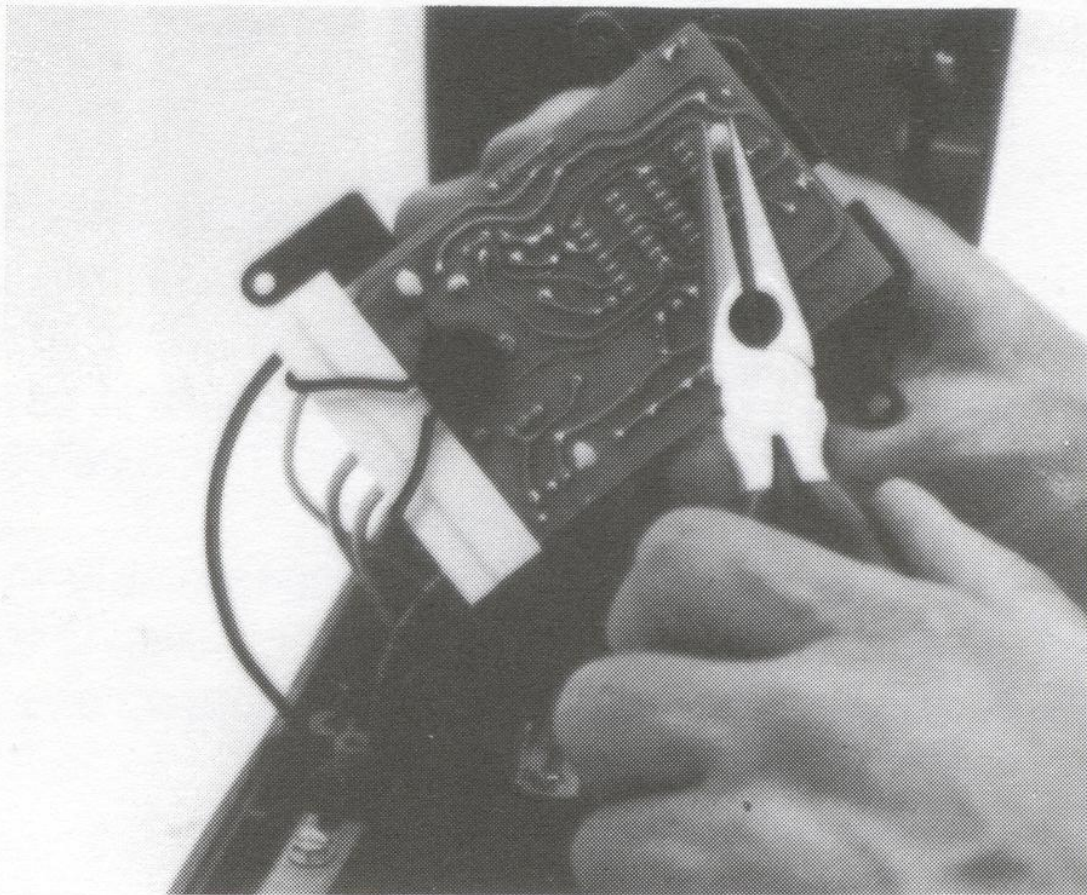


Figure 32

Installation Of Circuit Board And Base Plate:

- Press and lock circuit board onto base plate standoffs.
- Attach terminal connector to circuit board (*figure 33*).
- To mount base plate, first be sure that the case locking lever is straight up in the locked position to avoid interference.
- Set ribbon frame assembly in place, using same mounting holes as base plate. Be sure the transport lever is engaged with the ribbon feed actuator.
- Install four mounting screws.

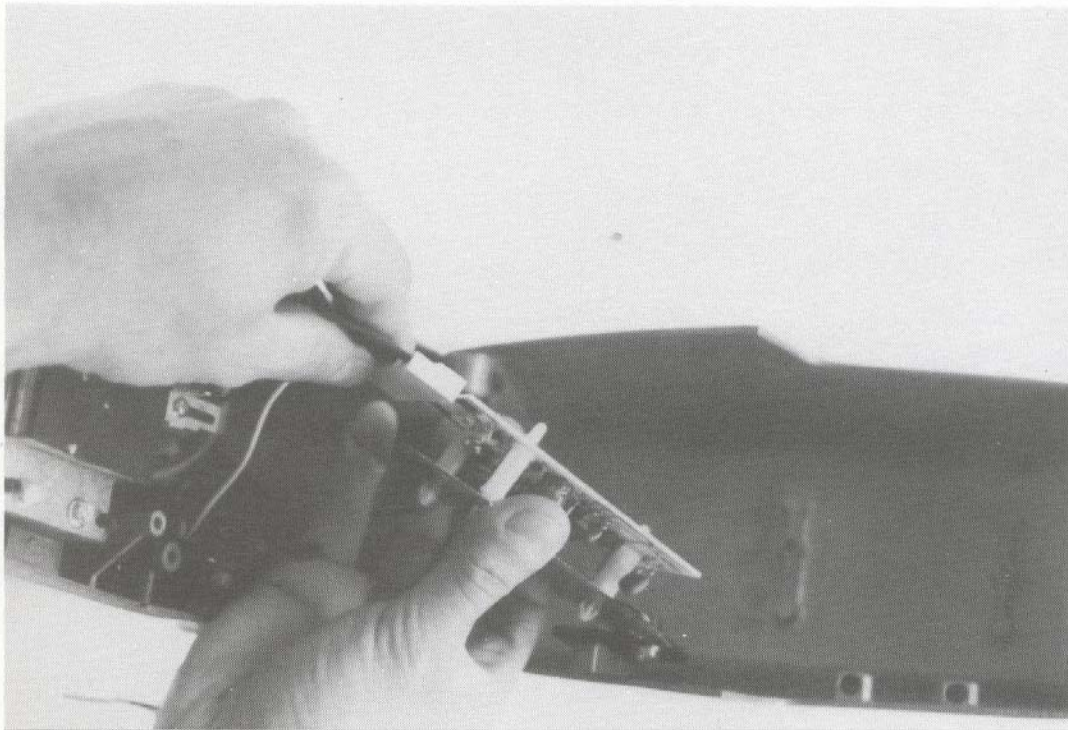


Figure 33

Ribbon Feed Actuator:

- Disconnect the plunger return spring from the stud on the left side of the casting.
- Remove "E" ring, and slide actuator to the right.

ILLUSTRATED **PARTS LIST**



DATE/TIME STAMPS

Model AR-E, AD-E, ARC-E, ARL-E Series

NUMBERING MACHINES

Model AN-E, ADN-E Series

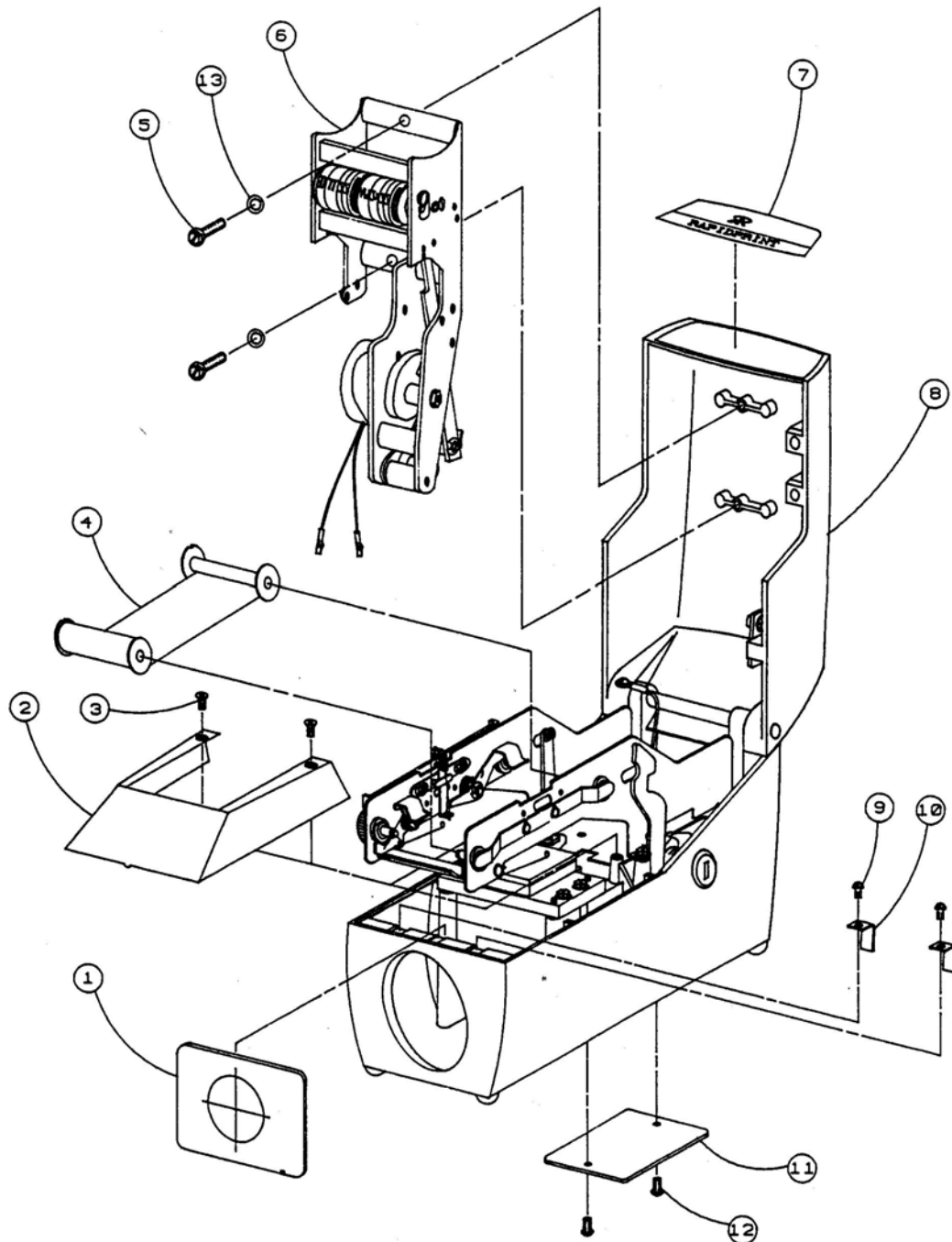
GENERAL ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Bottom Front Plate(see note 1)	1	00-05614-000000
2	Paper Plate	1	00-05648-000000
3	Flat Hd Undercut Phillips Thd-Forming Screw	2	#6-32 x 1/4
4	Ribbon, Purple	1	00-05650-000908
5	Hex Hd Thd-Forming Screw	2	#8-32 x 3/4
6	Top Frame Assembly		
	AN-E	1	01-07554-000172
	AR-E	1	01-07554-000186
7	Top Front Plate	1	00-05615-000000
8	Bottom Frame & Casting Ass'y	1	
9	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
10	Front Plate Mtg Clip	2	00-05629-000000
11	Bottom Cover Plate	1	00-05649-000000
12	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
13	Int Star Washer	2	#8

NOTE:

1. For ARL-E (w/digital clock), item #1 is replaced with: 12-05645-001130.
2. For ARMTL-E (w/digital clock), item #1 is replaced with: 14-05645-001130.
3. For ARC-E (w/analog clock), item #1 is replaced with: 01-05645-000000.

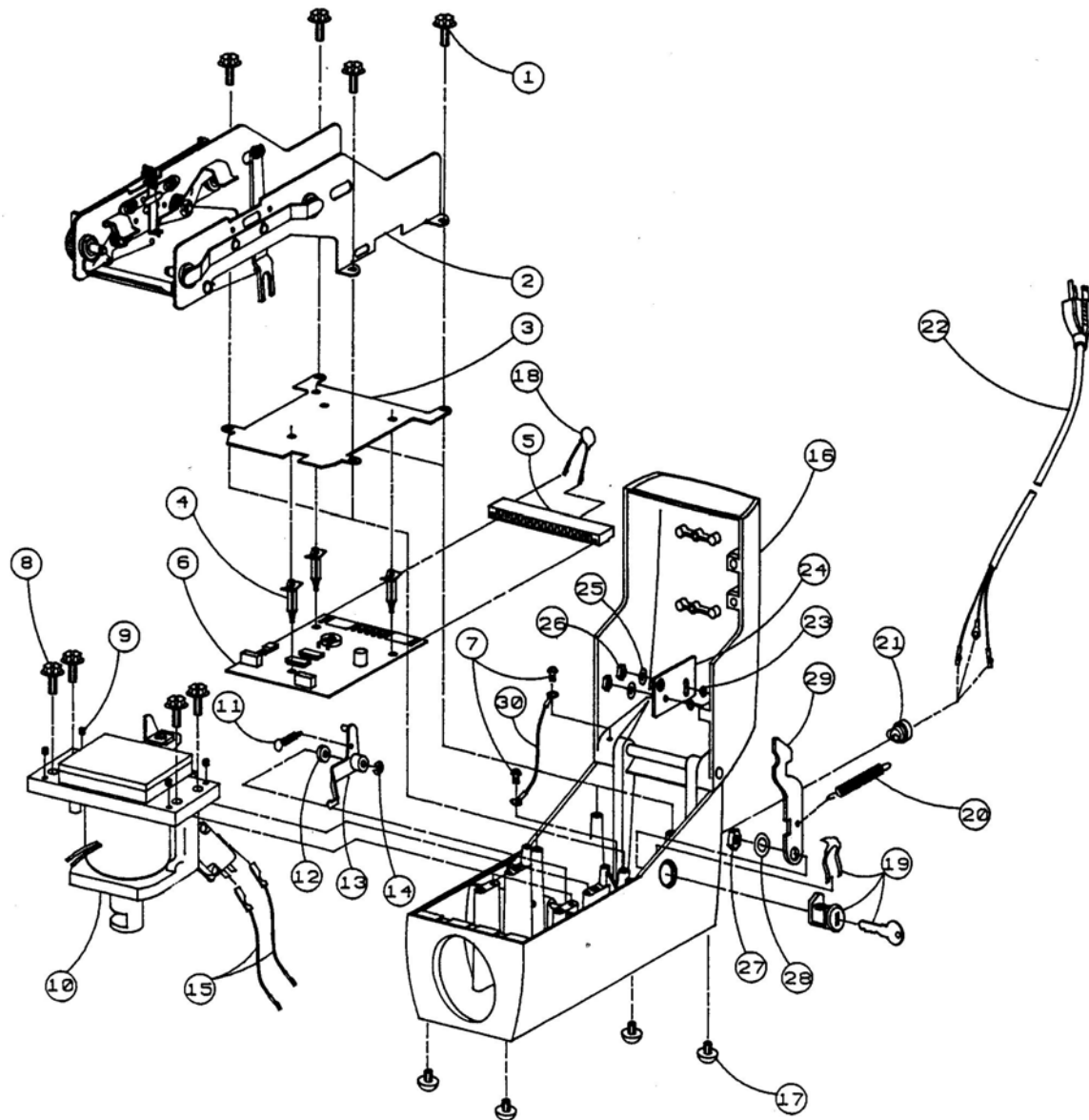
GENERAL ASSEMBLY



BOTTOM FRAME & CASTING ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Hex Hd Thd-Forming Screw	4	#8-32 x 1/2
2	Ribbon Frame Ass'y	1	01-00608-000151
3	Base Plate	1	00-01536-001130
4	Standoff	3	00-07313-001130
5	Connector	1	00-07325-001130
6	Circuit Board Assembly	1	01-07310-001129 (AN-E)
		1	01-07310-001130 (AR-E)
7	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
8	Hex Hd Thd-Forming Screw	4	#8-32 x 3/4
9	Flat Pt Socket Set Screw	4	#8-32 x 1/2
10	Printing Weight & Solenoid Ass'y	1	
11	Plunger Return Spring	1	00-05668-000000
12	Spacer	1	00-06438-000000
13	Ribbon Feed Actuator Assembly	1	01-00597-001130
14	"E" Ring	1	00-05211-000000
15	Wire Assembly-yellow	2	01-06930-001130
16	Sub Casting Assembly	1	01-07654-000151
17	Rubber Feet	4	00-00210-000000
18	Varistor Assembly	1	01-07129-000001
19	Spring Clip/Lock & Key Set	1	00-06784-000000
20	Locking Lever Spring	1	00-02666-000000
21	Grommet	1	00-02160-000000
22	Cord & Plug Assembly	1	00-00209-001130
23	Washer	2	00-00156-000000
24	Locking Lever Latch Assembly	1	01-06907-000000
25	Ext Star Washer	2	#10
26	Hex Nut	2	#10-32
27	Hex Nut	1	00-06645-000000
28	Washer	1	00-06988-000000
29	Locking Lever	1	00-05769-000000
30	Ground Jumper	1	01-07314-000000

BOTTOM FRAME & CASTING ASSEMBLY



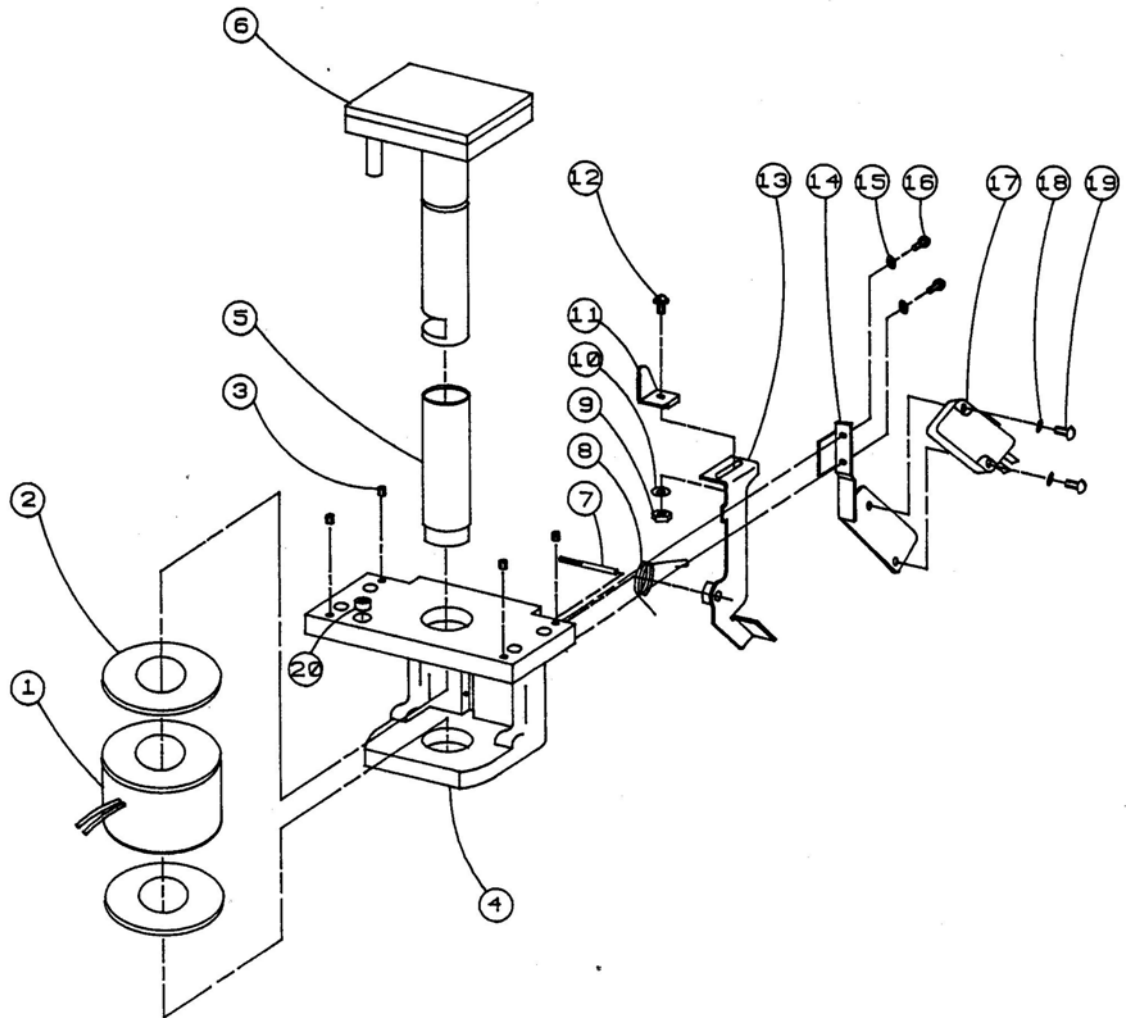
SOLENOID FRAME ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Solenoid Coil	1	00-03024-001130
2	Solenoid Coil Insulator	2	00-05225-000000
3	Flat Pt Socket Set Screw	4	#8-32 x 1/2
4	Solenoid Frame Casting	1	00-06945-000000
5	Solenoid Plunger Guide	1	00-06946-000000
6	Printing Weight Assembly	1	01-00598-101130
7	Trigger Pivot Shaft	1	00-05432-000000
8	Trigger Spring	1	00-05379-001130
9	Hex Nut	1	#4-40
10	Ext Star Washer	1	#4
11	Trigger Top	1	00-05660-000000
12	Binding Hd Screw (Sems)	1	#4-40 x 1/4
13	Trigger Assembly	1	01-00603-001130
14	Switch Mtg Bracket	1	00-06489-001130
15	Int Star Washer	2	#6
16	Pan Hd Phil Thd-Forming Scr	2	#6-32 x 3/8
17	Trigger Switch	1	00-06488-001130
18	Split Washer	2	#4
19	Rd Hd Screw	2	#4-40 x 9/16
20	Brass Bushing	1	00-06960-000000

Replacement Parts:

Platen	00-02542-000000
Heavy Duty Platen	00-02542-900000
Heavy Duty Printing Weight	01-00598-061130
Bumper	00-02502-000000
Brass Bushing	00-06920-000000

SOLENOID FRAME ASSEMBLY



RIBBON FRAME ASSEMBLY

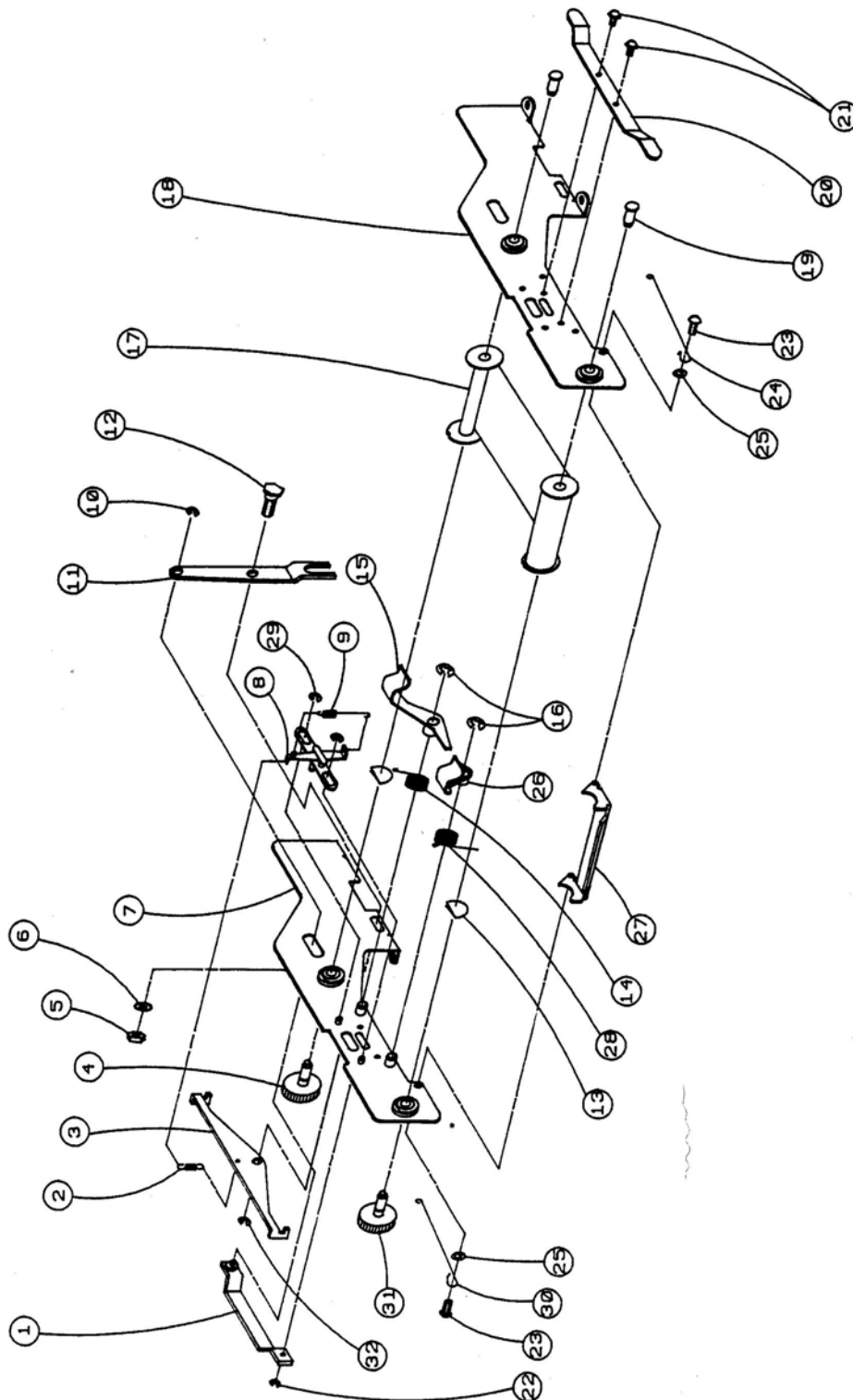
<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Ribbon Feed Link & Stud Ass'y	1	01-05638-000000
2	Ribbon Feed Pawl Spring	1	00-02622-001130
3	Ribbon Feed Pawl	1	00-02468-000000
4	Ribbon Ratchet & Shaft Assembly	1	01-05636-000000
5	Hex Nut	1	#10-32
6	Ext Star Washer	1	#10
7	Left Ribbon Plate Assembly	1	01-05641-000000
8	Ribbon Reverse Toggle Assembly	1	01-00591-000000
9	Toggle Snap Spring	1	00-02620-001130
10	"E" Retaining Ring	1	00-05418-000000
11	Transport Lever	1	00-02470-000000
12	Trans. Lever Shoulder Screw	1	00-05624-000000
13	Ribbon Shaft Lock Spring	2	00-05080-000000
14	Ribbon Feeler Spring (Rear)	1	00-05652-000274
15	Ribbon Feeler & Bushing Ass'y	1	01-05647-000000
16	"E" Retaining Ring	2	00-05667-000000
17	Ribbon, Purple	1	00-05650-000908*
18	Right Ribbon Plate Assembly	1	01-05642-000000
19	Right Ribbon Shaft	2	00-05621-000000
20	Right Ribbon Shaft Leaf Spring	1	00-05639-000000
21	Pan Hd Phil SEMS Screw	2	#4-40 x 5/32
22	"E" Retaining Ring	1	00-05418-000000
23	Rd Head Screw	2	#6-32 x 1/4
24	Deflector Spring (Right)	1	00-05728-000274
25	Int Star Washer	2	#6
26	Ribbon Feeler & Bushing Ass'y	1	01-05646-000000
27	Front Ribbon Plate Brace	1	00-05625-000000
28	Ribbon Feeler Spring (Front)	1	00-05652-000223
29	"E" Retaining Ring	2	00-05418-000000
30	Deflector Spring (Left)	1	00-05728-000243
31	Ribbon Ratchet & Shaft Assembly	1	01-05635-000000
32	"E" Retaining Ring	1	00-05211-000000
33	"E" Retaining Ring	1	00-05418-000000

FOR OTHER COLOR RIBBONS, USE FOLLOWING PART NUMBERS:

00-05650-000900	Black
00-05650-000904	Blue
00-05650-000906	Green
00-05650-000908*	Purple*
00-05650-000910	Red

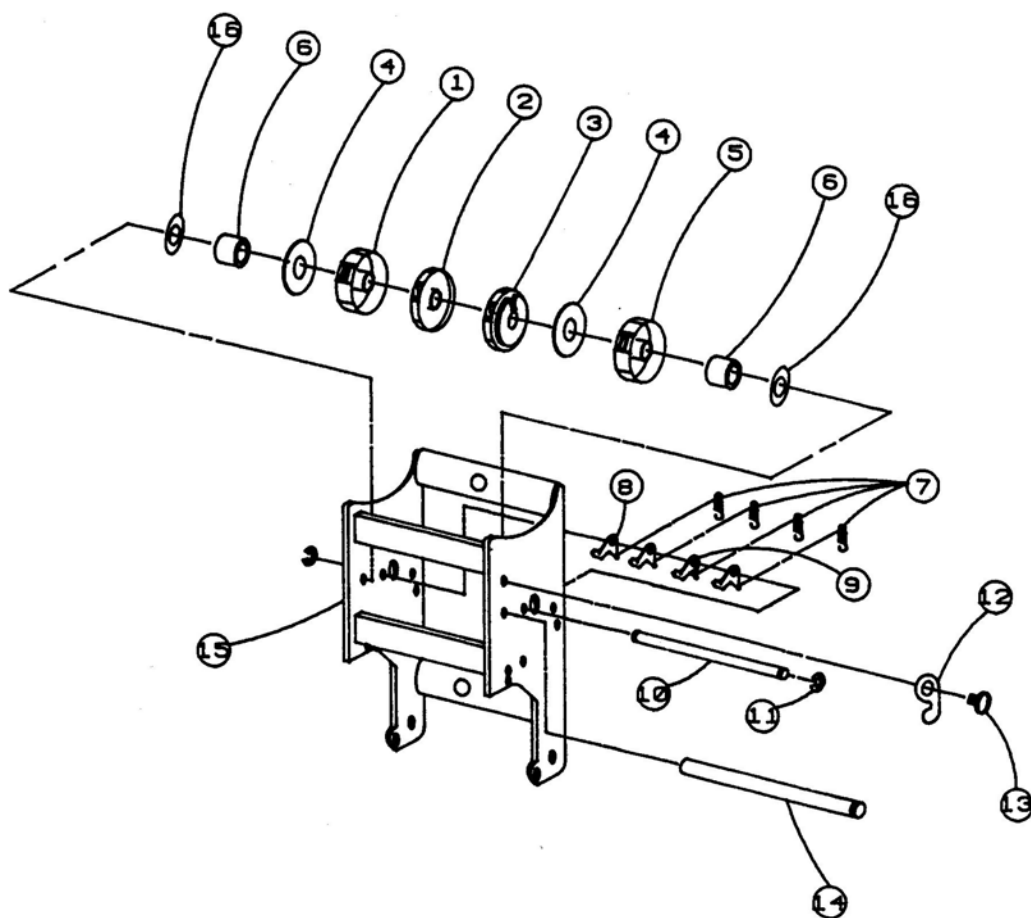
*default ribbon color

RIBBON FRAME ASSEMBLY



AD-E TYPESECTION ASSEMBLY

AD-E TYPESECTION ASSEMBLY



NO.	PART NAME	QTY	P/N	NO.	PART NAME	QTY	P/N
1	Month Wheel Ass'y	1	01-00497-005243	9	Retaining Pawl	1	00-05747-000243
2	1-2-3 Wheel Ass'y	1	01-00496-005243	10	Retaining Pawl Shaft	1	00-02682-000000
3	1-0 Date Wheel Ass'y	1	01-00495-005243	11	"E" Retaining Ring	2	00-05142-000000
4	Spacer	2	00-00296-000020	12	Wheel Shaft Retainer	1	00-06849-000000
5	Year Wheel Assembly	1	01-00498-005101	13	Binding Hd Screw	1	#4-40 x 1/8
6	Spacer	2	00-04073-000001	14	Print Wheel Shaft	1	00-02526-000000
7	Retaining Pawl Spring	4	00-00980-000060	15	Top Frame Assembly	1	01-00553-000152
8	Retaining Pawl	3	00-05747-000000	16	Washer	A/R	00-00297-000005, 00-00297-000010

A/R = As Required

AR-E TYPESECTION ASSEMBLY

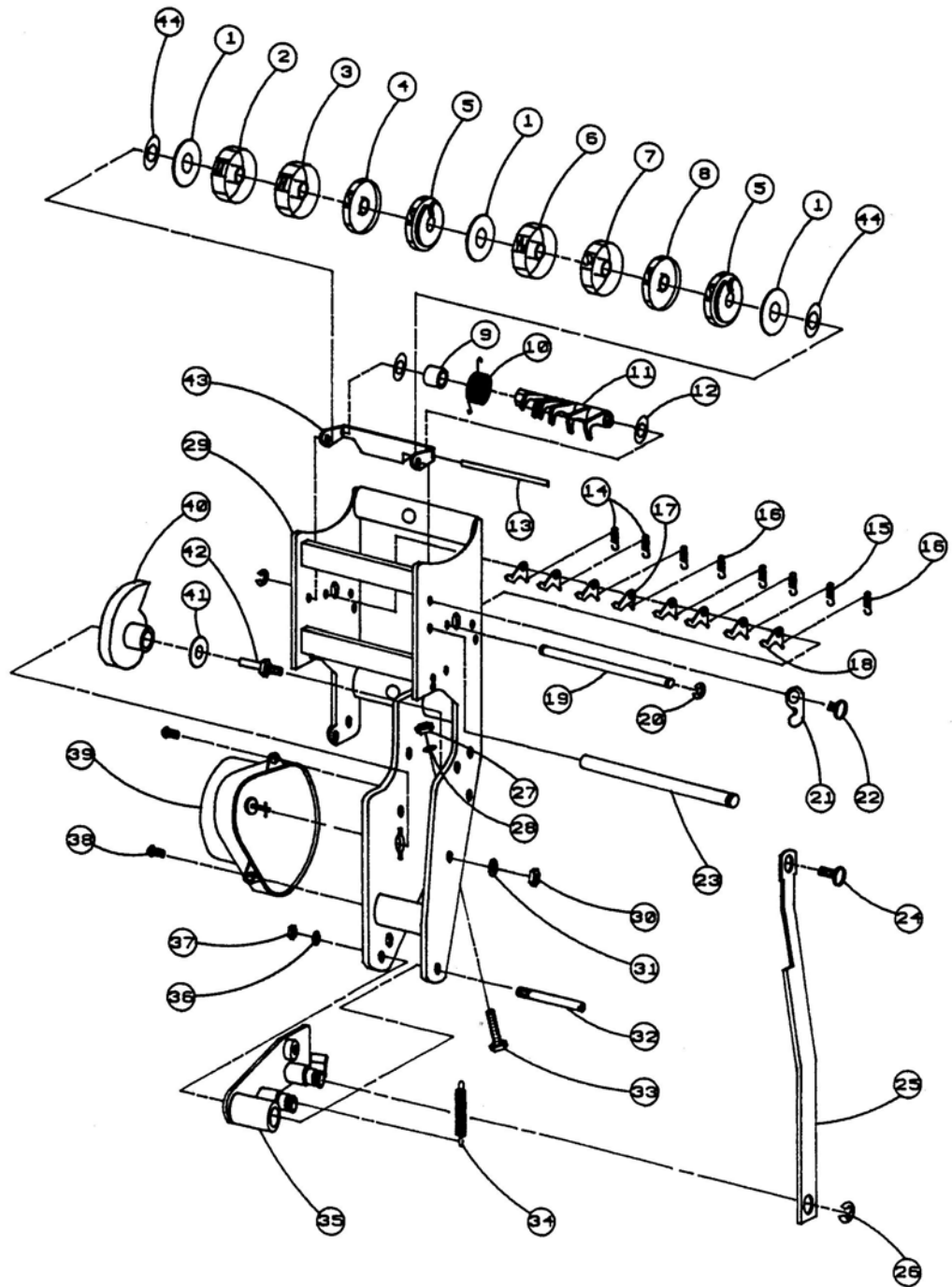
<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	3	00-00296-000020
2	Year Wheel Assembly	1	01-00498-005101
3	Month Wheel Assembly	1	01-00497-005243
4	1-2-3 Wheel Assembly	1	01-00496-005243
5	1-0 Date Wheel Assembly	2	01-00495-005243
6	AM-PM Wheel Assembly	1	01-00494-005243
7	Hour Wheel Assembly	1	01-00493-005243
8	Tens Minute Wheel	1	01-00492-005243
9	Actuating Pawl Spacer	1	00-02306-000250
10	Actuating Pawl Spring	1	00-05275-000243
11	Actuating Pawl Assembly	1	01-05276-000243
12	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
13	Actuating Pawl Shaft	1	00-02701-000000
14	Retaining Pawl Spring	2	00-00980-000060
15	Retaining Pawl Spring	4	00-00980-000021
16	Retaining Pawl Spring	2	00-00980-000036
17	Retaining Pawl-Left Hand	1	00-05747-000243
18	Retaining Pawl	7	00-05747-000000
19	Retaining Pawl Shaft	1	00-02682-000000
20	"E" Retaining Ring	2	00-05142-000000
21	Wheel Shaft Retainer	1	00-06849-000000
22	Binding Head Screw	1	# 4-40 x 1/8
23	Print Wheel Shaft	1	00-02526-000000
24	Shoulder Screw	1	00-02824-000000
25	Connecting Arm	1	00-02530-000000
26	"E" Retaining Ring	1	00-07331-000000
27	Hex Nut, Miniature	1	# 8-32
28	Int. Star Washer	1	# 8
29	Top Frame Assembly	1	01-00553-000185
30	Hex Nut	1	# 10-32
31	Ext Star Washer	1	# 10
32	Snap Lever Shaft	1	00-00507-000000
33	Hex Head Screw	1	# 8-32 x 3/4
34	Return Spring	1	00-00828-000000
35	Cam Follower Assembly	1	01-00119-000000
36	Ext Star Washer	1	# 5
37	Hex Nut	1	# 5-40
38	Rd Head Screw	2	# 4-40 x 3/16
39	Motor Assembly	1	01-00586-000123
40	Impulse Cam	1	01-00116-000000
41	Flat Washer	1	# 10
42	Cam Bearing Support	1	00-00504-000000
43	Actuating Pawl Swing	1	00-02492-000112
44	Wheel Spacer Washer	A/R	00-00297-000005, 00-00297-000010

Replacement Parts:

Roller (included in item 35)	00-02990-000000
Retaining Ring (included in item 35)	00-05419-000000

A/R = As Required

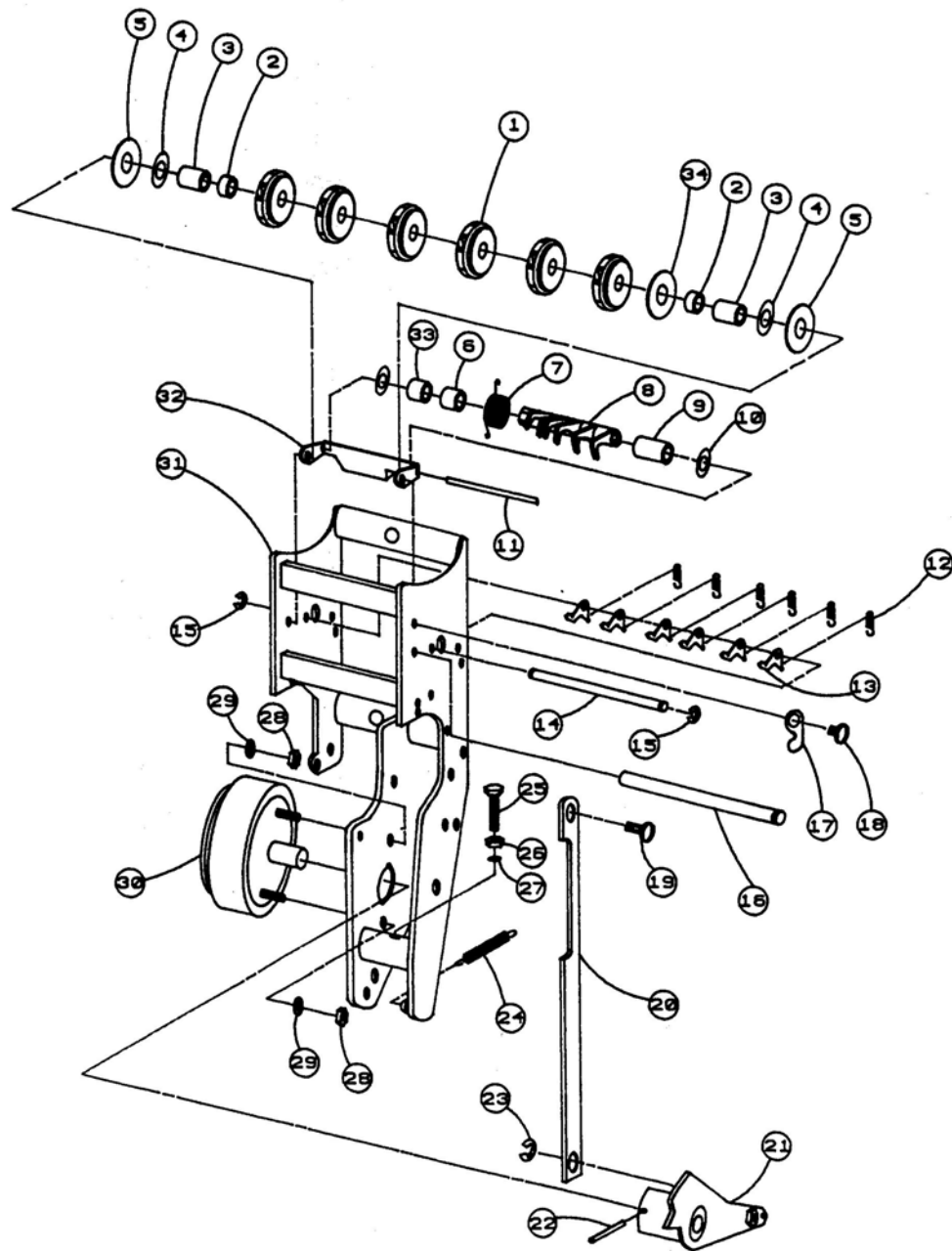
AR-E TYPESECTION ASSEMBLY



AN-E TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	1-0 Number Wheel Assembly	6	01-04043-005178
2	Spacer	2	00-02869-000000
3	Spacer	2	00-02695-000000
4	Spacer Washer	A/R	00-00297-000005, 00-00297-000010
5	Spacer Washer	A/R	00-00295-000005, 00-00295-000010
6	Spacer	1	00-02306-000100
7	Actuating Pawl Spring	1	00-05275-000243
8	Actuating Pawl Assembly	1	01-05268-000243
9	Actuating Pawl Spacer	1	00-02306-000000
10	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
11	Actuating Pawl Shaft	1	00-02701-000000
12	Retaining Pawl Spring	6	00-06840-000036
13	Retaining Pawl	6	00-05747-000000
14	Retaining Pawl Shaft	1	00-02682-000000
15	"E" Retaining Ring	2	00-05142-000000
16	Print Wheel Shaft	1	00-02526-000000
17	Wheel Shaft Retainer	1	00-06849-000000
18	Binding Hd Screw	1	# 4-40 x 1/8
19	Shoulder Screw	1	00-02824-000000
20	Connecting Arm	1	00-00512-000000
21	Actuating Arm Assembly	1	01-00500-000000
22	Roll Pin	1	1/8 x 9/16
23	"E" Retaining Ring	1	00-07331-000000
24	Return Spring	1	00-07100-000000
25	Hex Hd Screw	1	# 8-32 x 3/4
26	Hex Nut, Miniature	1	# 8-32
27	Int Star Washer	1	# 8
28	Hex Nut	2	# 8-32
29	Ext Star Washer	2	# 8
30	Rotary Solenoid	1	00-05358-000000
31	Top Frame Assembly	1	01-00553-000171
32	Actuating Pawl Swing	1	00-02492-000112
33	Spacer	1	00-02306-000025
34	Spacer	2	00-00296-000020

AN-E TYPESECTION ASSEMBLY

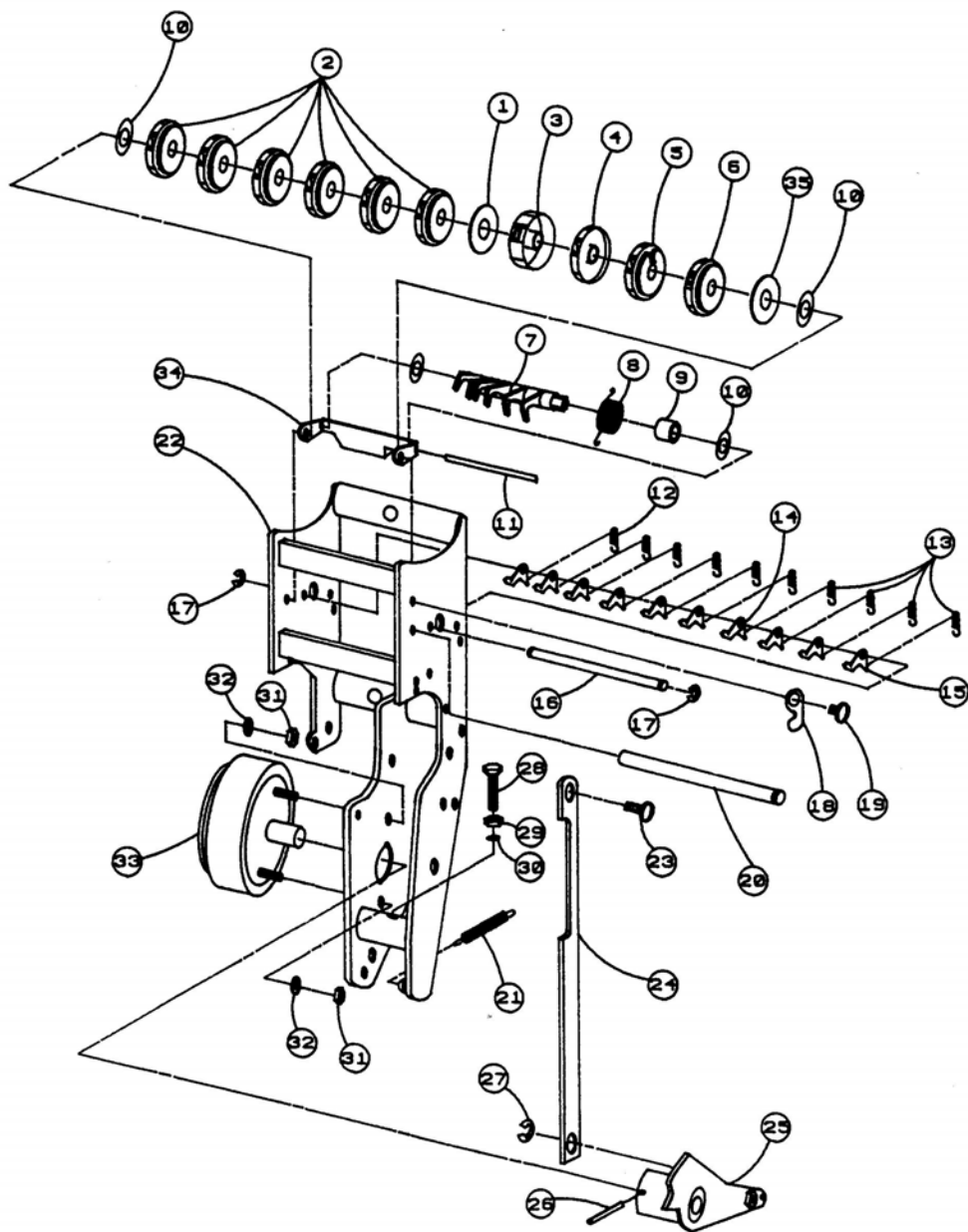


ADN-E TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	A/R	00-00296-000005, 00-00296-000010
2	1-0 Number Wheel Assembly	6	01-04043-005178
3	Month Wheel Assembly	1	01-00497-005243
4	HM-1L 1-2-3 Wheel Assembly	1	01-00496-005236
5	HM-1L 1-0 Date Wheel Assembly	1	01-00495-005236
6	Abbr. Vertical Year Wheel Ass'y	1	01-06160-005191
7	Actuating Pawl Assembly	1	01-05269-000243
8	Actuating Pawl Spring	1	00-05275-000274
9	Actuating Pawl Spacer	1	00-02306-000000
10	Washer	A/R	00-00297-000005, 00-00297-000010
11	Actuating Pawl Shaft	1	00-02701-000000
12	Retaining Pawl Spring	6	00-06840-000036
13	Retaining Pawl Spring	4	00-00980-000060
14	Retaining Pawl-Right Hand	1	00-05747-000274
15	Retaining Pawl	9	00-05747-000000
16	Retaining Pawl Shaft	1	00-02682-000000
17	"E" Retaining Ring	2	00-05142-000000
18	Wheel Shaft Retainer	1	00-06849-000000
19	Binding Hd Screw	1	#4-40 x 1/8
20	Print Wheel Shaft	1	00-02526-000000
21	Return Spring	1	00-07100-000000
22	Top Frame Assembly	1	01-00553-000171
23	Shoulder Screw	1	00-02824-000000
24	Connecting Arm	1	00-00512-000000
25	Actuating Arm Assembly	1	01-00500-000000
26	Roll Pin	1	1/8 x 9/16
27	"E" Retaining Ring	1	00-07331-000000
28	Hex Head Screw	1	#8-32 x 3/4
29	Hex Nut, Miniature	1	#8-32
30	Int Star Washer	1	#8
31	Hex Nut	2	#8-32
32	Ext Star Washer	2	#8
33	Rotary Solenoid	1	00-05358-000000
34	Actuating Pawl Swing	1	00-02492-000001
35	Spacer	1	00-00296-000020
36	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010

A/R = As Required

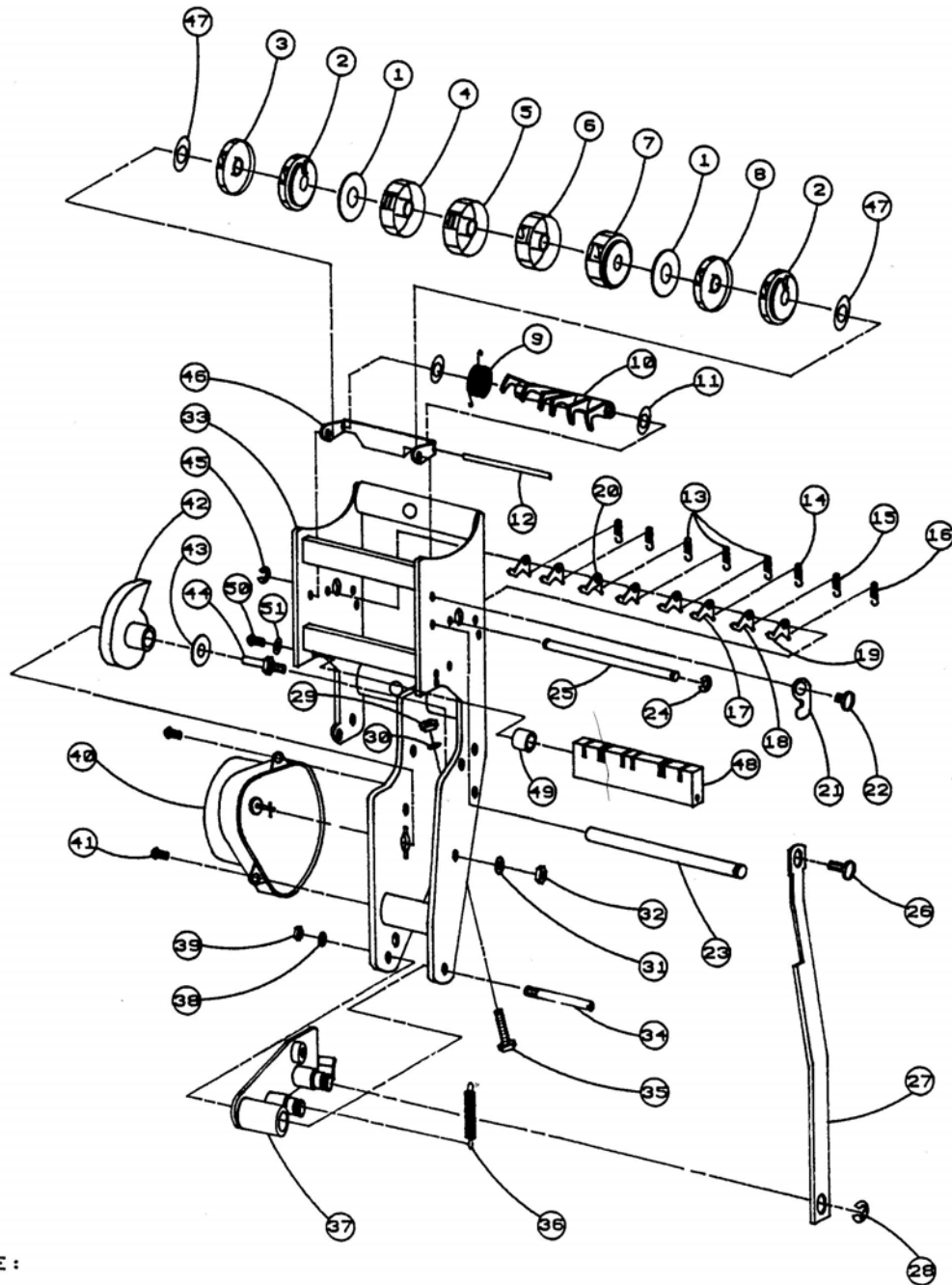
ADN-E TYPESECTION ASSEMBLY



ARMT TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	2	00-00296-000010
2	1-0 Date Wheel Assembly	2	01-00495-005236
3	1-2-3 Date Wheel Assembly	1	01-00496-005236
4	Month Wheel Assembly	1	01-00497-005243
5	Year Wheel Assembly	1	01-00498-005101
6	(13-23) Hour Wheel Assembly	1	01-00494-005259
7	(00-12) Hour Wheel Assembly	1	01-00493-005259
8	0-5 Tens Minute Wheel Assembly	1	01-00492-005236
9	Actuating Pawl Spring	1	00-05275-000243
10	Actuating Pawl Assembly	1	01-05266-000243
11	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
12	Actuating Pawl Shaft	1	00-02701-000000
13	Retaining Pawl Spring	3	00-00980-000060
14	Retaining Pawl Spring	1	00-00980-000045
15	Retaining Pawl Spring	3	00-00980-000021
16	Retaining Pawl Spring	1	00-00980-000036
17	Retaining Pawl-MT	1	00-05747-000112
18	Retaining Pawl	1	00-05747-000274
19	Retaining Pawl	5	00-05747-000000
20	Retaining Pawl	1	00-05747-000274
21	Wheel Shaft Retainer	1	00-06849-000000
22	Binding Hd Screw	1	# 4-40 x1/8
23	Print Wheel Shaft	1	00-02526-000000
24	"E" Retaining Ring	1	00-05142-000000
25	Retaining Pawl Shaft	1	00-02682-000000
26	Shoulder Screw	1	00-02824-000000
27	Connecting Arm	1	00-02530-000000
28	"E" Retaining Ring	1	00-07331-000000
29	Hex Nut, Miniature	1	# 8-32
30	Int Star Washer	1	# 8
31	Ext Star Washer	1	# 10
32	Hex Nut	1	# 10-32
33	Top Frame Assembly	1	01-00553-000185
34	Snap Lever Shaft	1	00-00507-000000
35	Hex Head Screw	1	# 8-32 x 3/4
36	Return Spring	1	00-00828-000000
37	Cam Follower Assembly	1	01-00119-000000
38	Ext Star Washer	1	#5
39	Hex Nut	1	#5-40
40	Motor & Pin Assembly	1	01-00586-000123
41	Binding Head Screw (SEMS)	2	#4-40 x 1/4
42	Impulse Cam	1	01-00116-000000
43	Flat Washer	1	#10
44	Cam Bearing Support	1	00-00504-000000
45	"E" Retaining Ring	1	00-05142-000000
46	Actuating Pawl Swing	1	00-02492-000112

ARMT TYPESECTION ASSEMBLY



NOTE:

UNITS FOR U.S.A. USAGE HAVE THE FOLLOWING DIFFERANCES:

- ITEMS 48, 49, 50 & 51 ARE ELIMINATED.
- ITEM 1 CONSISTS OF LARGER O.D. SPACERS P/N 00-00296-000010 (2 PLACES).
- SPACER P/N 00-00296-000020 IS REQUIRED ON BOTH ENDS OF WHEEL STACK (BETWEEN WHEEL AND ITEM 47).

ILLUSTRATED **PARTS LIST**



TIME/DATE/NUMBERING STAMPS
Model C724-E, C724L-E

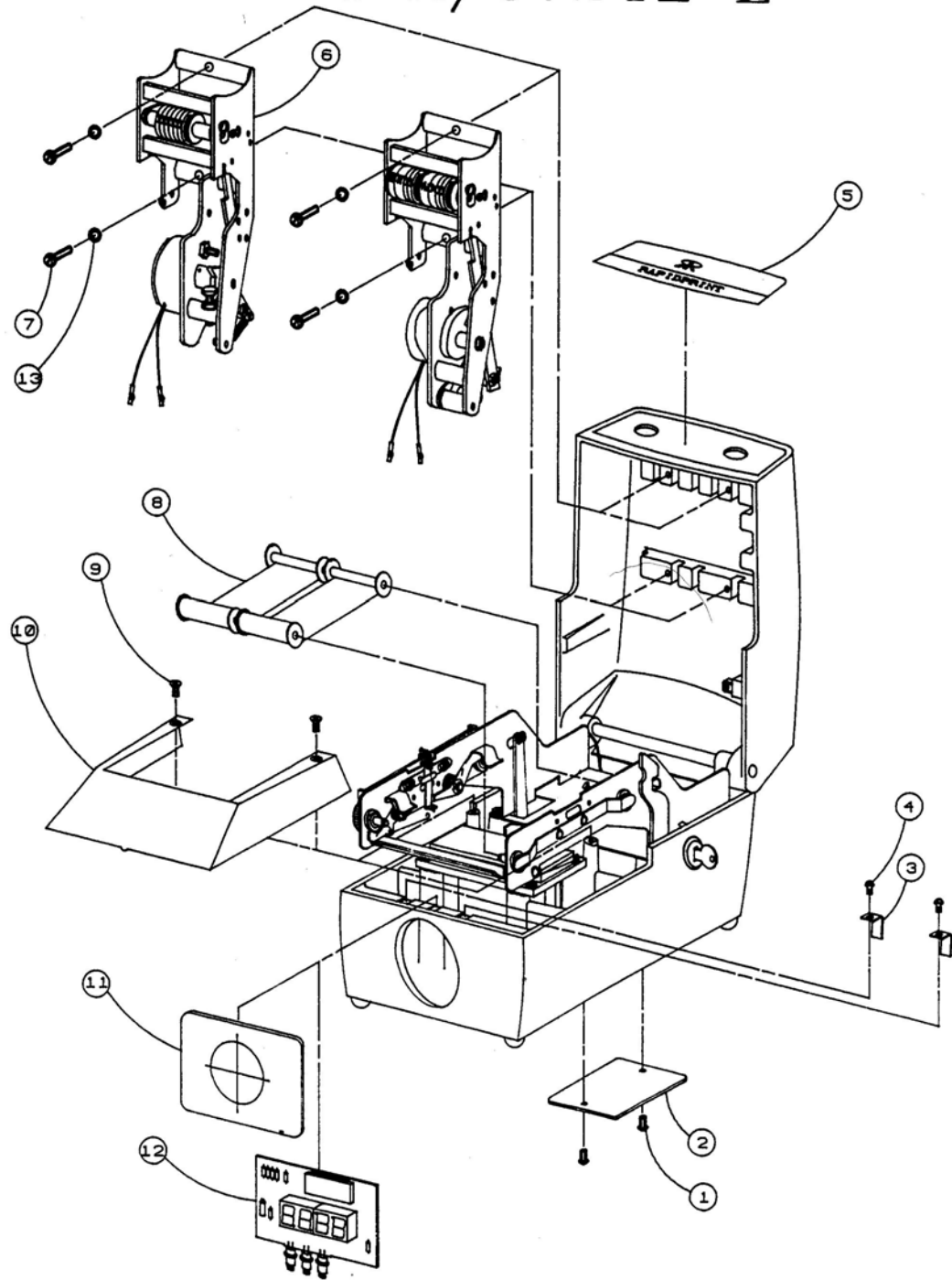
GENERAL ASSEMBLY C724-E

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
2	Bottom Cover Plate	1	00-05649-000000
3	Front Plate Mtg Clip	2	00-05629-000000
4	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
5	Top Front Plate	1	00-05786-000000
6	Typesection Assembly		
	(AR,)	1	01-07554-000186
	(AN,)	1	01-07554-000172
7	Hex Hd Thd-Forming Screw	4	#8-32 x 3/4
8	Ribbon, Purple	1	00-05788-000908
9	Flat Hd Phil Thd-Forming Screw	2	#6-32 x 1/4
10	Paper Plate	1	00-05785-000000
11	Bottom Front Plate	1	00-05614-000000
12	Digital Clock	1	-
	110V/60 Hz 12 Hr Clock Bd Ass'y		12-05645-000217
	110V/50 Hz 12 Hr Clock Bd Ass'y		12-05645-900217
	110V/60 Hz 24 Hr Clock Bd Ass'y		14-05645-000217
	220V/60 Hz 12 Hr Clock Bd Ass'y		22-05645-000217
	220V/50 Hz 12 Hr Clock Bd Ass'y		22-05645-900217
	220V/60 Hz 24 Hr Clock Bd Ass'y		24-05645-000217
	220V/50 Hz 24 Hr Clock Bd Assy		24-05645-900217
13	Int Star Washer	4	#8

NOTES:

1. For C724-E, item #12 is not used.
2. For C724L-E (w/digital clock), item #11 is not used.
3. Digital Clock Assemblies contain all parts necessary for conversion.

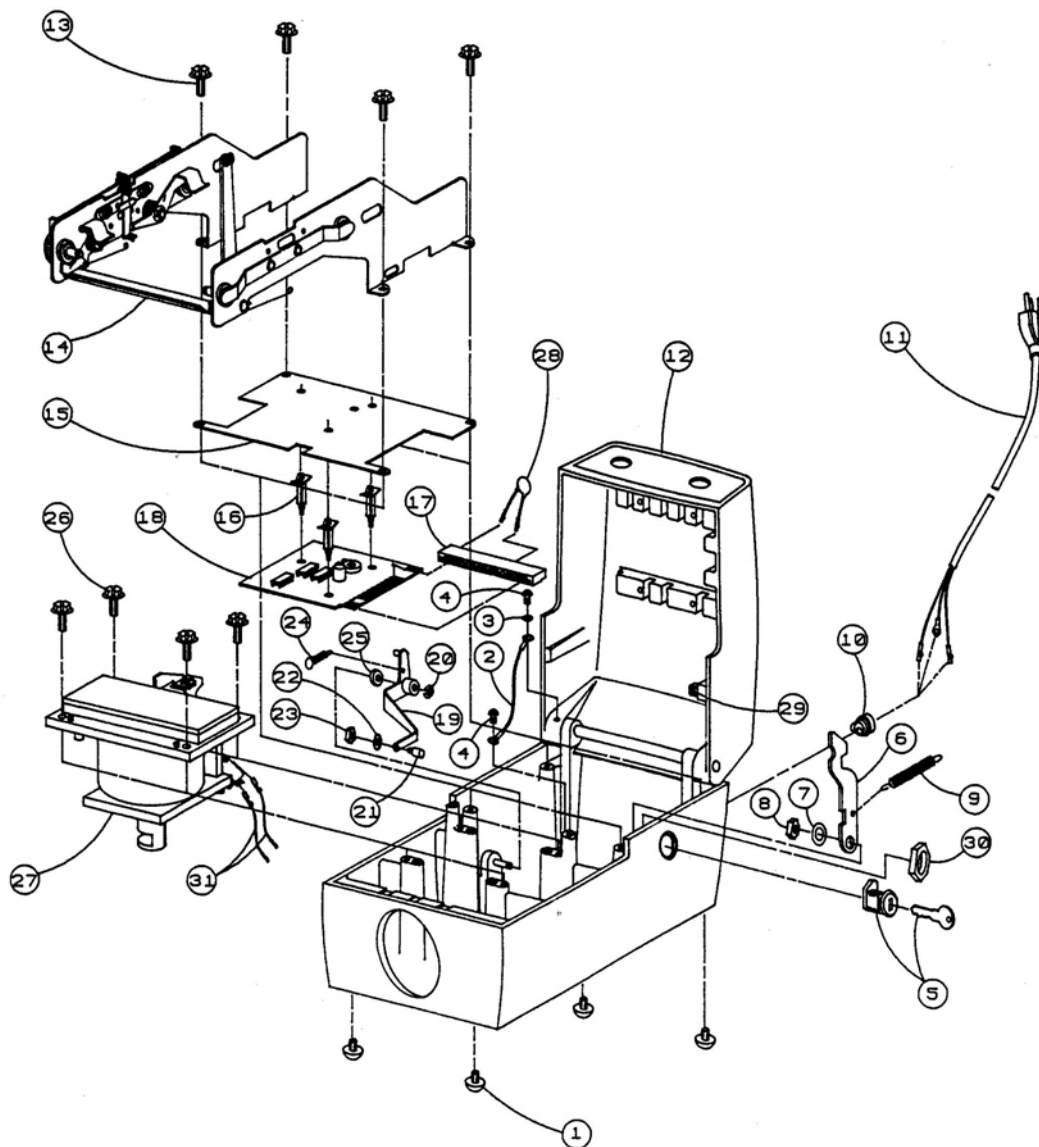
GENERAL ASSEMBLY C724-E/C724L-E



BOTTOM FRAME & CASTING ASSEMBLY C724-E

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Rubber Feet	4	00-00210-000145
2	Ground Jumper Wire Assembly	1	01-07314-000000
3	Int Star Washer	1	#6
4	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
5	Lock/Nut/Key	1	00-06784-000000
6	Locking Lever	1	00-05769-000000
7	Washer	1	00-06988-000000
8	Hex Nut	1	00-06645-000000
9	Locking Lever Spring	1	00-02666-000000
10	Grommet	1	00-02160-000000
11	Cord & Plug Assembly	1	00-00209-001130
12	Casting Sub Assembly	1	01-07654-000217
13	Hex Hd Thd-Forming Screw	4	#8-32 x 1/2
14	Ribbon Frame Assembly	1	-
15	Base Plate	1	00-01536-000217
16	Standoff	3	00-07313-001130
17	Connector	1	00-07325-001130
18	Circuit Bd Assembly	1	01-07310-001129
19	Ribbon Feed Actuator Assembly	1	01-07597-000217
20	"E" Ring	1	00-05667-000000
21	Ribbon Feed Actuator Stud	1	00-02555-000000
22	Ext Star Washer	1	#10
23	Hex Nut	1	#10-32
24	Plunger Return Spring	1	00-05668-000000
25	Spacer	1	00-06438-000000
26	Hex Hd Thd-Forming Screw	4	#8-32 x 3/4
27	Solenoid Frame Ass'y	1	01-07607-000217
28	Varistor Assembly	1	01-07129-000001
29	Oval Point Socket Set Screw	1	#1/4-28 x 3/8
30	Hex Nut	1	#3/4-24
31	Wire Assembly-Yellow	2	01-06930-001130

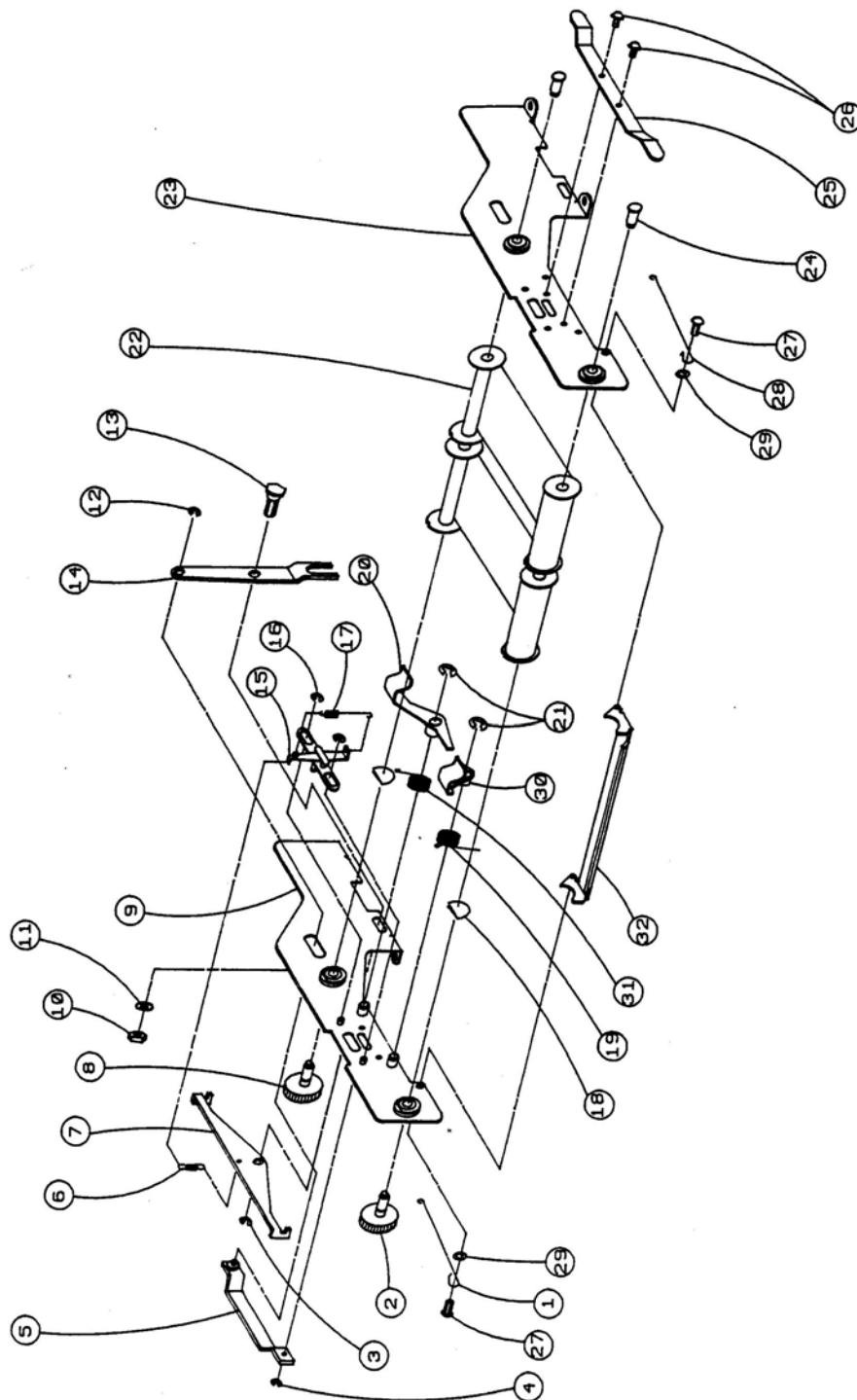
BOTTOM FRAME & CASTING ASSEMBLY C724-E



RIBBON FRAME ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Deflector Spring (left)	1	00-05728-000243
2	Ribbon Ratchet & Shaft Ass'y (front)	1	01-05635-000000
3	"E" Ring	1	00-05211-000000
4	"E" Ring	1	00-05418-000000
5	Ribbon Feed Link & Stud Ass'y	1	01-05638-000000
6	Ribbon Feed Pawl Spring	1	00-02622-000000
7	Ribbon Feed Pawl	1	00-02468-000000
8	Ribbon Ratchet & Shaft Ass'y	1	01-05636-000000
9	Left Ribbon Plate Ass'y	1	01-05641-000000
10	Hex Nut	1	#10-32
11	Ext Star Washer	1	#10
12	"E" Ring	1	00-05418-000000
13	Transport Lever Shoulder Screw	1	00-05624-000000
14	Transport Lever	1	00-02470-000000
15	Ribbon Reverse Toggle Ass'y	1	01-00591-000000
16	"E" Ring	2	00-05418-000000
17	Toggle Snap Spring	1	00-02620-001130
18	Ribbon Shaft Locking Spring	2	00-05080-000000
19	Ribbon Feeler Spring (front)	1	00-05652-000223
20	Ribbon Feeler & Bushing Ass'y	1	01-05647-000000
21	"E" Ring	2	00-05667-000000
22	Ribbon (Purple)	1	00-05788-000908
23	Right Ribbon Plate Ass'y	1	01-05642-000000
24	Right Ribbon Shaft	2	00-05621-000000
25	Right Ribbon Shaft Leaf Spring	1	00-05639-000000
26	Pan Hd Phil SEMS Screw	2	#4-40 x 5/32
27	Rd Hd Screw	2	#6-32 x 1/4
28	Deflector Spring (right)	1	00-05728-000274
29	Int Star Washer	2	#6
30	Ribbon Feeler & Bushing Ass'y (front)	1	01-05646-000000
31	Ribbon Feeler Spring (rear)	1	00-05652-000274
32	Front Ribbon Plate Brace	1	00-05779-000000

C724-E RIBBON FRAME ASSEMBLY



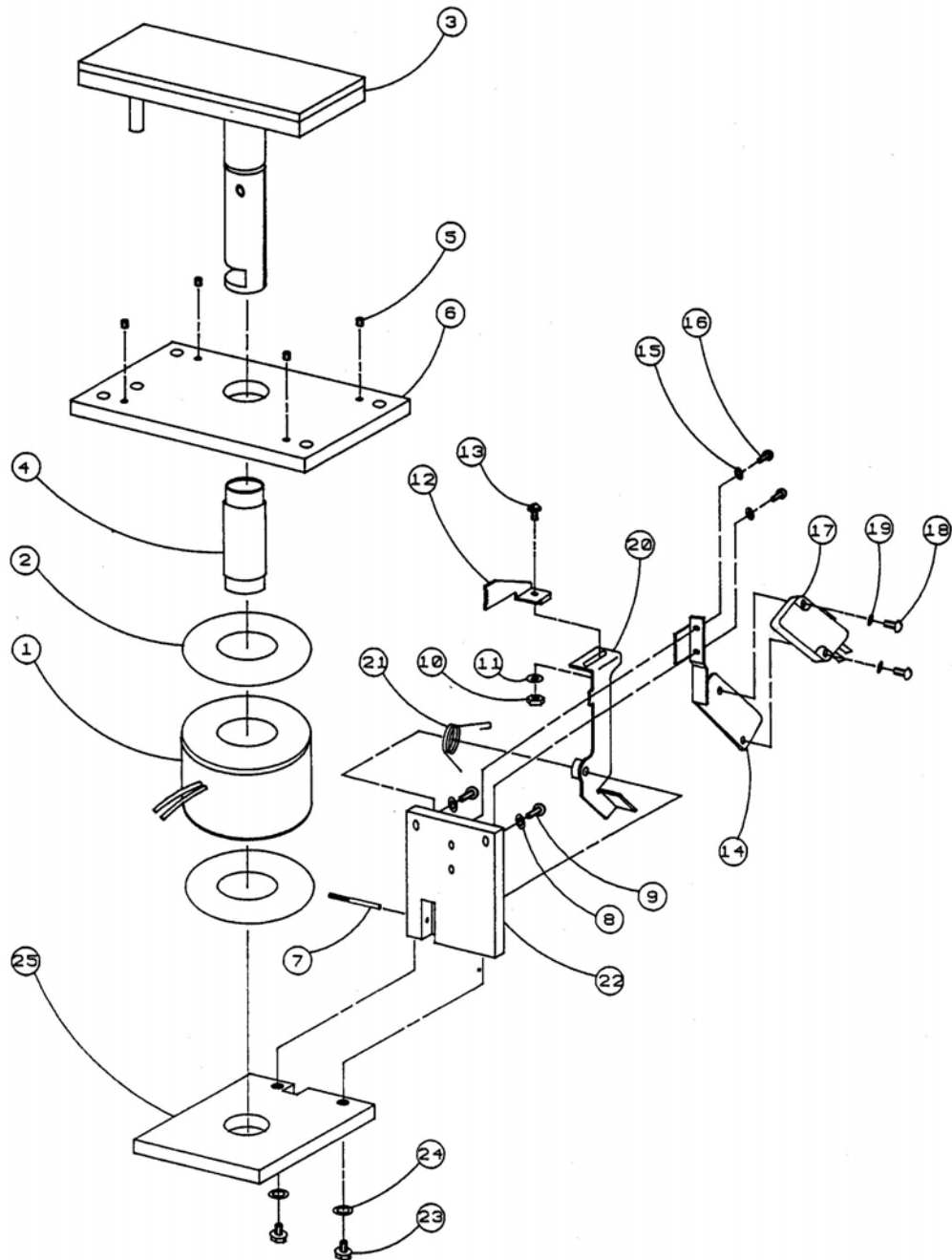
SOLENOID FRAME ASSEMBLY C724-E

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Solenoid Coil	1	00-02927-000000
2	Solenoid Coil Insulator	2	00-05763-000000
3	Printing Weight Assembly	1	01-07598-000217
4	Solenoid Plunger Guide	1	00-02736-000000
5	Flat Point Socket Set Screw	4	#8-32 x 1/2
6	Top Plate	1	00-05774-000000
7	Trigger Pivot Shaft	1	00-05432-000000
8	Int Star Washer	2	#8
9	Hex Hd Screw	2	#8-32 x 1/2
10	Hex Nut	1	#4-40
11	Ext Star Washer	1	#4
12	Trigger Top	1	00-05776-000000
13	Rd Hd Screw SEMS	1	#4-40 x 1/4
14	Switch Mtg Bracket	1	00-06489-001130
15	Int Star Washer	2	#5
16	Pan Hd Phil Screw	2	#5-40 x 3/8
17	Trigger Switch	1	00-06488-001130
18	Rd Hd Screw	2	#4-40 x 9/16
19	Split Washer	2	#4
20	Trigger Assembly	1	01-00603-001130
21	Trigger Spring	1	00-05379-001130
22	Back Plate	1	00-05424-000000
23	Hex Hd Screw	2	#8-32 x 1/2
24	Int Star Washer	2	#8
25	Bottom Plate	1	00-05773-000000

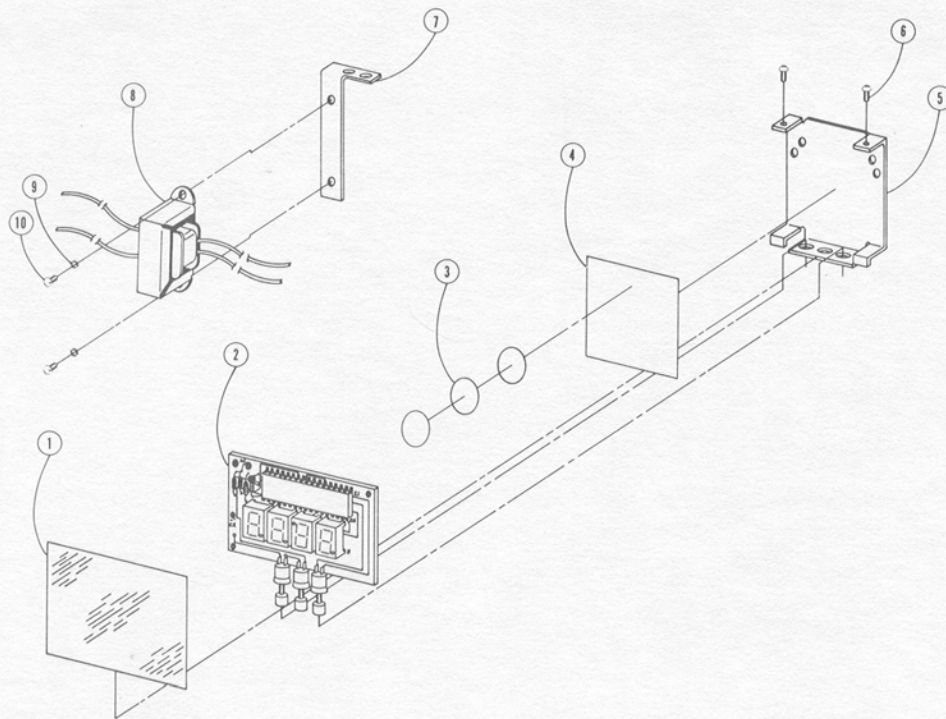
Replacement Part:

Bumper (included in item 3)	00-02853-000000
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C724-E SOLENOID FRAME ASSEMBLY



Digital Clock Assembly C724-E - 12-05645-000217



No.	Item Name	Quantity	Part Number
1	Filter	1	5612-1
2	60 Hz 12 hour clock board assembly	1	12-5645-1130
	50 Hz 12 hour clock board assembly	1	12-5645-901130
	60 Hz 24 hour clock board assembly	1	14-5645-1130
	50 Hz 24 hour clock board assembly	1	14-5645-901130
	60 Hz 12 hour clock board assembly	1	22-5645-1130
	50 Hz 12 hour clock board assembly	1	22-5645-901130
	60 Hz 24 hour clock board assembly	1	24-5645-1130
	50 Hz 24 hour clock board assembly	1	24-5645-901130
3	Felt pads	3	2502-1
4	Insulator	1	5799-3
5	Mounting bracket for digital clock	1	5629-1
6	Pan head screw	2	#6-32x1/4
7	Mounting bracket for transformer	1	5629-217
8	Transformer (110V) (220V)	1	7340
		1	7340-1
9	Internal star washer	2	#6
10	Round head screw	2	#6-32x3/16

ILLUSTRATED PARTS LIST



VERTICAL TIME/DATE NUMBERING STAMPS

Model VAR-E, VAD-E, VADN-E, VAN-E,
VR-E, VARC-E, VARL-E

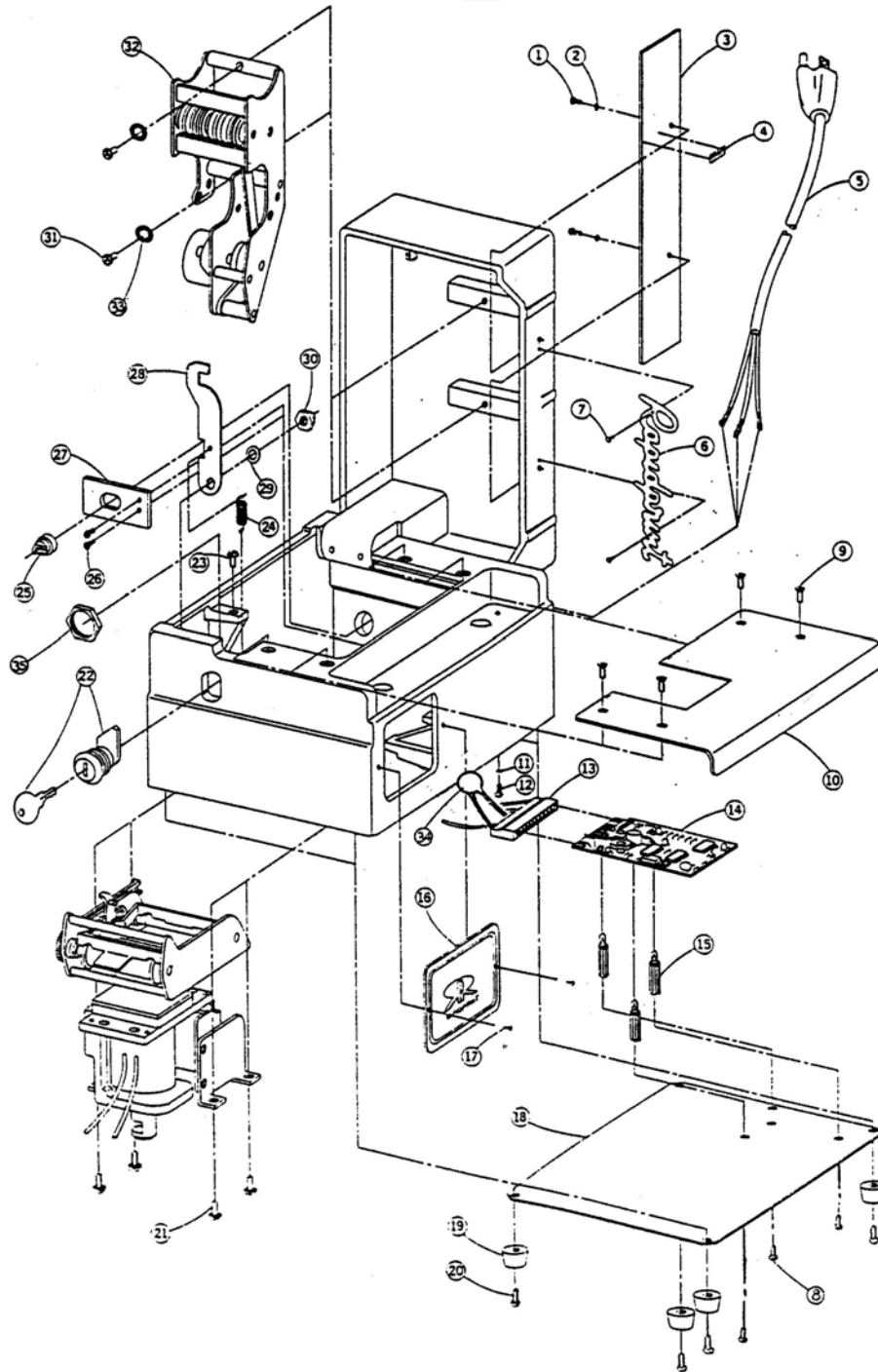
GENERAL ASSEMBLY V-E

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Pan Hd Screw	2	#4-40 x 3/16
2	Int Star Washer	2	#4
3	Front Plate	1	00-05302-000000
4	Print Indicator	1	00-05193-000000
5	Cord & Plug Assembly	1	00-00209-001130
6	Signature Ornament	1	00-05174-000000
7	Drive Screw	2	#0 x 3/16
8	Filstr Hd Phil Blk Thd-Form Scr	3	#6-32 x 1/4
9	Flat Hd Thd-Forming Screw	4	#6-32 x 3/8
10	Paper Plate	1	00-05301-000000
11	Int Star Washer	1	#6
12	Filstr Hd Phil Blk Thd-Form Scr	1	#6-32 x 1/4
13	Connector	1	00-07325-001130
14	Circuit Bd Assembly (AR-E)	1	01-07310-001130
15	Standoff	3	00-07313-000304
16	Front Cover Plate	1	00-05192-000000
17	Drive Screw	2	#2 x 3/16
18	Bottom Cover (without clock)	1	00-05175-001130
	Bottom Cover (with clock)	1	00-05175-000001
19	Rubber Feet	4	00-00210-000001
20	Rd Hd Thd-Forming Screw	4	#6-32 x 3/8
21	Hex Hd Thd-Forming Screw	4	#8-32 x 3/8
22	Cam & Lock	1	00-06784-000000
23	Hex Hd Thd-Forming Screw	1	#8-32 x 1/2
24	Locking Lever Spring	1	00-02666-000000
25	Grommet	1	00-02160-000000
26	Rd Hd Screw	2	#4-40 x 1/4
27	Heyco Clamp	1	00-07086-003002
28	Locking Lever	1	00-05769-000305
29	Washer	1	00-06988-000000
30	Hex Nut	1	00-06645-000000
31	Hex Hd Thd-Forming Screw	2	#8-32 x 3/4
32	Top Frame Ass'y (see section with TFFA's)		-
33	Int Star Washer	2	#8
34	Varistor Assembly	1	01-07129-000001
35	Hex Nut	1	#3/4-24

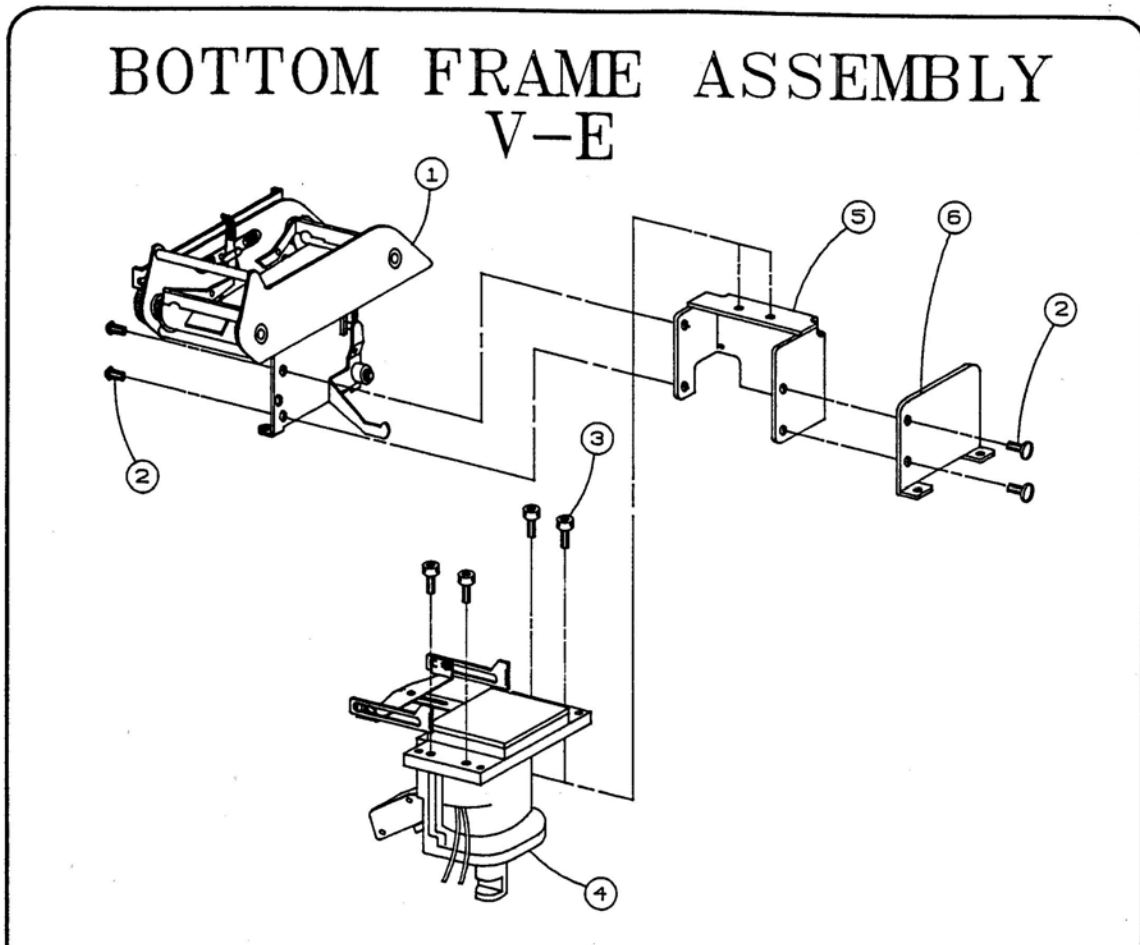
NOTE:

1. For VARC-E /VARL-E models, items 16 &17 are not used.
Clock Assembly selection.

GENERAL ASSEMBLY V-E



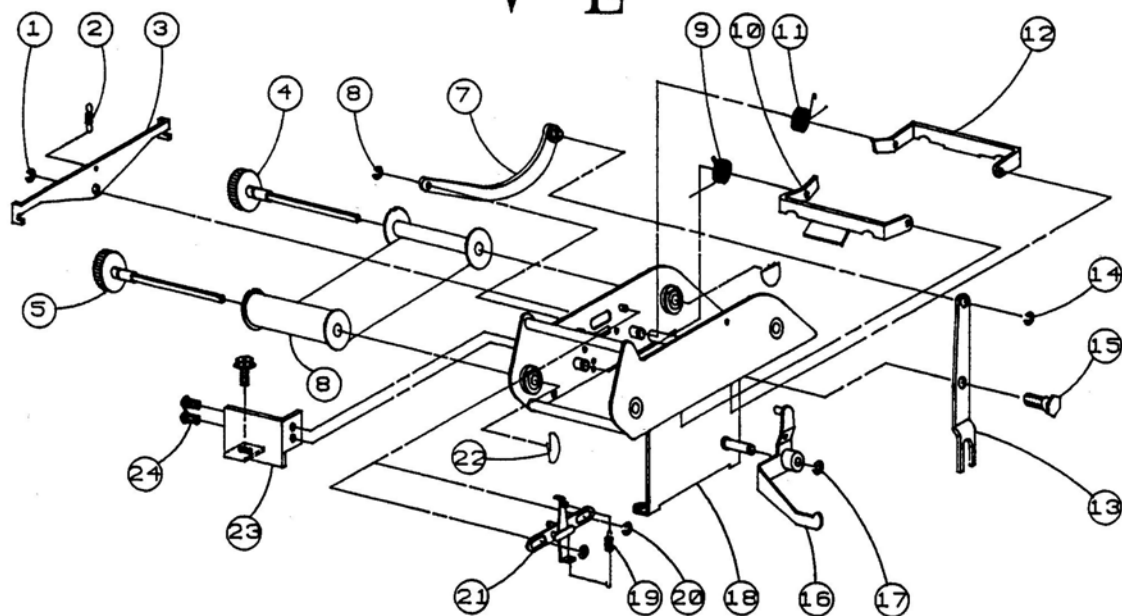
BOTTOM FRAME ASSEMBLY V-E



<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Ribbon Frame Ass'y	1	-
2	Rd Hd Screw SEMS	4	#8-32 x 3/8
3	Socket Screw (black)	4	#8-32 x 1/2
4	Solenoid Frame Ass'y	1	-
5	Solenoid Frame Mtg Bracket	1	00-05716-000304
6	Solenoid Frame Support Plate	1	00-05178-000304

RIBBON FRAME ASSEMBLY V-E

RIBBON FRAME ASSEMBLY V-E



<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	"E" Ring	1	00-05418-000000
2	Ribbon Feed Pawl Spring	1	00-02622-001130
3	Ribbon Feed Pawl	1	00-02468-000000
4	Rear Ribbon Ratchet & Shaft Ass'y	1	01-00592-000000
5	Front Ribbon Ratchet & Shaft Ass'y	1	01-00594-000000
6	"E" Ring	1	00-05211-000000
7	Ribbon Feed Link & Stud Ass'y	1	01-00585-000000
8	Ribbon, Purple	1	00-05650-000908
9	Ribbon Feeler Spring (front)	1	00-02616-000223
10	Ribbon Feeler (front)	1	00-02610-000223
11	Ribbon Feeler Spring (rear)	1	00-02616-000274
12	Ribbon Feeler (rear)	1	00-02610-000274
13	Transport Lever	1	00-02470-000000
14	"E" Ring	1	00-05418-000000
15	Transport Lever Shoulder Screw	1	00-05624-000000
16	Ribbon Feed Actuator Assembly	1	01-07597-000304
17	"E" Ring	1	00-05418-000000
18	Bottom Frame Assembly	1	01-07600-000304
19	Toggle Snap Spring	1	00-02620-001130
20	"E" Ring	2	00-05418-000000
21	Ribbon Reverse Toggle Ass'y	1	01-00591-000000
22	Ribbon Shaft Locking Spring	2	00-05080-000000
23	Ribbon Frame Adjust Bracket	1	00-07240-000001
24	Pan Hd Screw SEMS	2	#4-40 x 1/4

SOLENOID FRAME ASSEMBLY V-E

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Solenoid Coil Insulator	2	00-05225-000000
2	Solenoid Coil	1	00-03024-001130
3	Solenoid Plunger Guide	1	00-06946-000000
4	Trigger Pivot Shaft	1	00-05432-000000
5	Solenoid Frame Casting	1	00-06945-000000
6	Flat Point Socket Set Screw	4	#8-32 x 1/2
7	Printing Weight Ass'y	1	01-00598-101130
8	Hex Nut	1	#4-40
9	Trigger Top	1	00-05660-000000
10	Binding Hd Screw SEMS	1	#4-40 x 1/4
11	Hex Nut (*)	2	#4-40
12	Extended Trigger Ass'y	1	01-07305-000000
	(shipped w/VR-E models or A/R)		
13	Ext Star Washer (*)	2	#4
14	Pan Hd Screw SEMS (*)	2	#4-40 x 1/4
15	Int Star Washer	2	#6
16	Pan Hd Phil Thd-Forming Screw	2	#6-32 x 3/8
17	Rd Hd Screw	2	#4-40 x 9/16
18	Split Washer	2	#4
19	Trigger Switch	1	00-06488-001130
20	Switch Mtg Bracket	1	00-06489-001130
21	Trigger Assembly	1	01-00603-001130
22	Trigger Spring	1	00-05379-001130
23	Ext Star Washer	1	#4
24	Brass Bushing	1	00-06960-000000

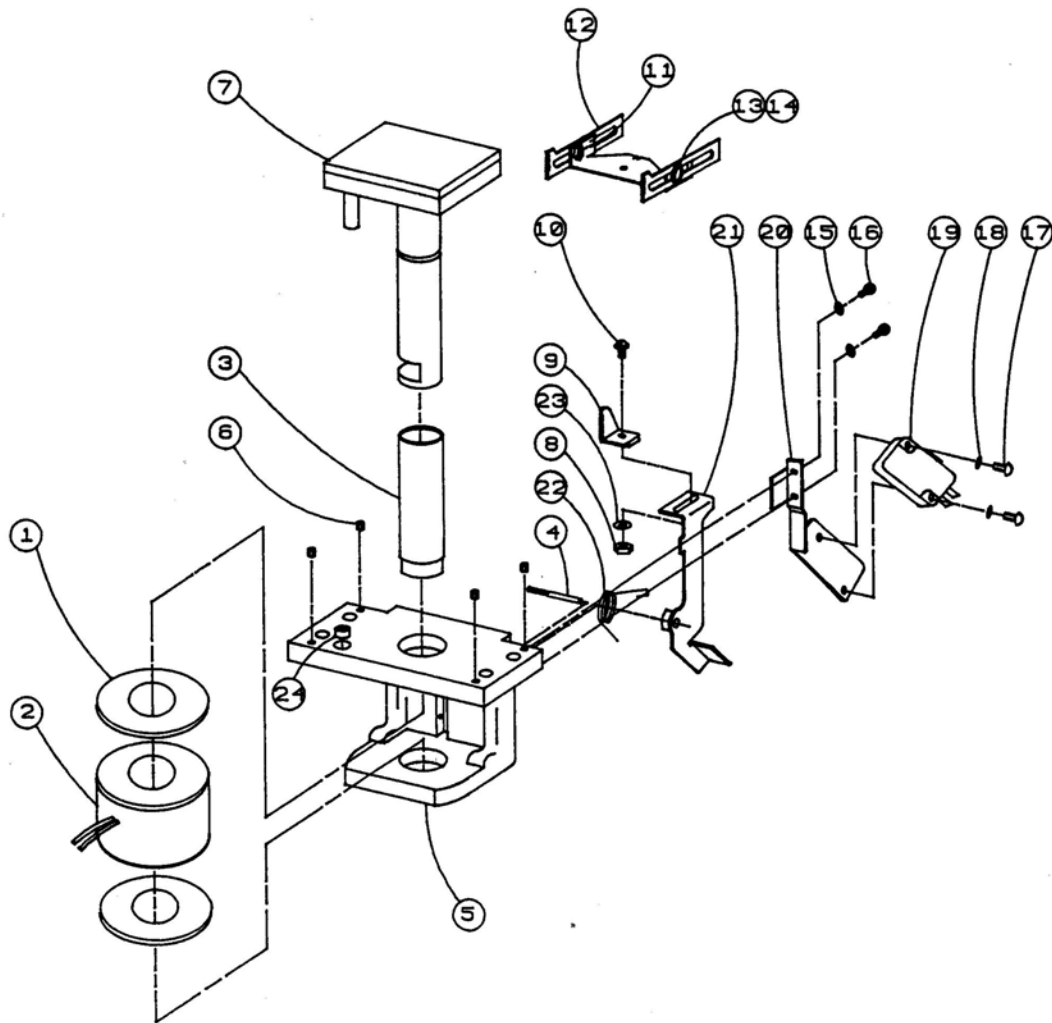
Replacement Part:

Bumper (included in item 7)	00-02502-000000
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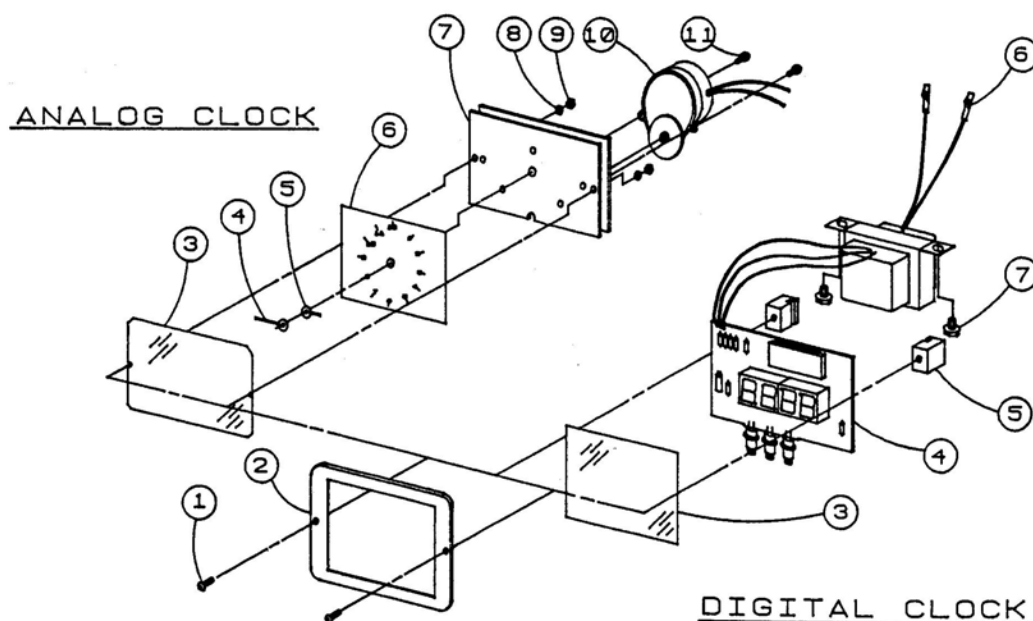
NOTES:

1. Items 9 & 12 are interchangeable.
2. (*) represents parts included in item 12.

SOLENOID FRAME ASSEMBLY V-E MODEL



CLOCK ASSEMBLY V-E



<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
ANALOG CLOCK			
1	Rd Hd Phil Screw	2	#4-40 x 7/8
2	Bezel	1	00-05310-000000
3	Clock Crystal	1	00-05311-000000
4	Minute Hand	1	00-05644-000000
5	Hour Hand	1	00-05643-000000
6	Clock Dial	1	00-05314-000000
7	Gear Train Assembly	1	01-05327-000000
8	Ext Star Washer	2	#4
9	Hex Nut	2	#4-40
10	Motor & 48T Gear Assy (110V/60Hz)	1	01-05326-000000
11	Binding Hd Screw SEMS	2	#4-40 x 1/4
DIGITAL CLOCK			
1	Pan Hd Phil Blk Nylon Screw	2	#4-40 x 1/2
2	Bezel	1	00-05310-000000
3	Filter	1	00-05612-000001
4	Clock Bd Assy (110V/60 Hz 12 Hr)	1	12-05645-000312
	Clock Bd Assy (110V/60 Hz 24 Hr)	1	14-05645-000312
	Clock Bd Assy (220V/50 Hz 12 Hr)	1	22-05645-900312
	Clock Bd Assy (220V/50 Hz 24 Hr)	1	24-05645-900312
5	Clock Bd Mounting Strip	2	00-05629-000003
6	Bifurcated Leaf Contact	2	00-06179-001130
7	Hex Hd Thd-Forming Screw	2	#8-32 x 1/2

NOTE:

1. Digital Clock Assemblies contain all parts necessary for conversion.

ILLUSTRATED **PARTS LIST**

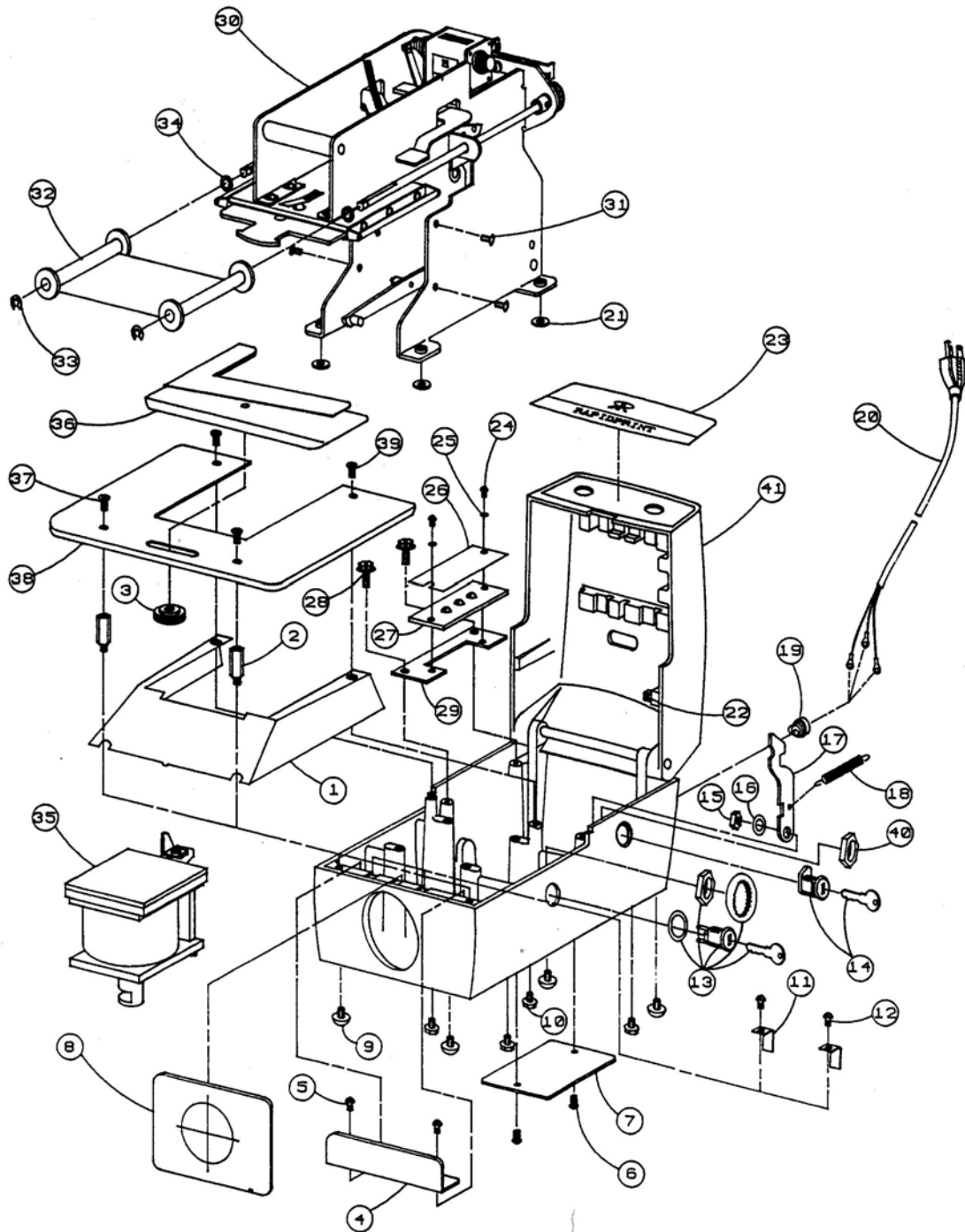


AUTOMATIC CHECKSIGNER
Model C650

GENERAL ASSEMBLY C650

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Paper Plate	1	00-05785-000136
2	Paper Plate Post	2	00-06066-000000
3	Adjustable Guide Nut	1	00-06074-000000
4	Front Plate Support Bracket	1	00-05780-003000
5	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
6	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
7	Bottom Cover Plate	1	00-05649-000000
8	Bottom Front Plate	1	00-05614-000000
9	Rubber Feet	4	00-00210-000145
10	Hex Hd SEMS Screw	4	#8-32 x 5/8
11	Front Plate Mounting Clip	2	00-05629-000000
12	Filstr Hd Blk Phil Thd-Form Scr	2	#6-32 x 1/4
13	Switch Lock & Nut	1	00-02865-003000
14	Key Set & Nut	1	00-02661-000136
15	Hex Nut	1	00-06645-000000
16	Washer	1	00-06988-000000
17	Locking Lever	1	00-05769-000000
18	Locking Lever Spring	1	00-02666-000000
19	Grommet	1	00-02160-000000
20	Cord & Plug Assembly	1	00-00209-001130
21	Frame Assembly Supports	4	00-07313-000001
22	Oval Point Socket Set Screw	1	#1/4-28 x 3/8
23	Top Front Plate	1	00-05786-000000
24	Binding Hd Screw	2	#4-40 x 1/4
25	Flat Washer	2	#4
26	Terminal Strip Cover	1	00-07307-000000
27	Terminal Strip	1	00-00983-000000
28	Hex Hd Thd-Forming Screw	2	#8-32 x 3/8
29	Terminal Support Strip	1	00-05130-000000
30	Frame Assembly	1	-
31	Rd Hd Screw SEMS	4	#8-32 x 3/8
32	Ribbon, Purple	1	00-06359-000908
33	"E" Ring (5144-21)	2	00-06648-000000
34	Spacer Adjusting Arm	2	00-05854-000000
35	Solenoid Frame Assy	1	01-00755-000000
36	Adjustable Guide	1	01-00784-000215
37	Flat Hd Screw	2	#4-40 x 1/4
38	Paper Guide Plate	1	00-02887-000136
39	Flat Hd Phil Thd-Forming Screw	2	#6-32 x 3/8
40	Hex Nut	1	#3/4-24
41	Casting Sub Assembly	1	01-00654-000213

GENERAL ASSEMBLY C650

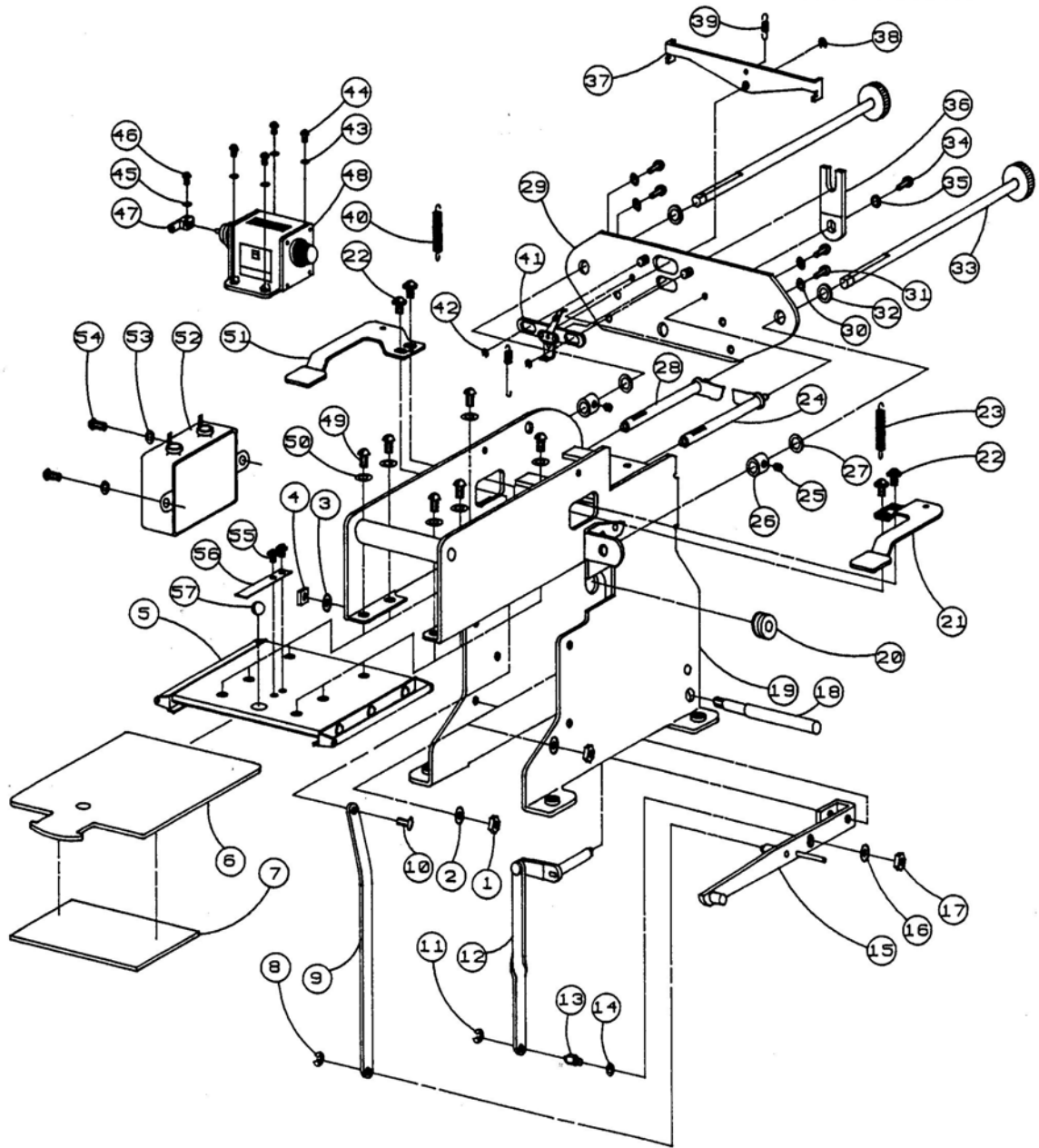


RIBBON FRAME ASSEMBLY C650

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Hex Nut	2	#8-32
2	Ext Star Washer	2	#8
3	Ext Star Washer	1	#8
4	Square Nut	1	#8-32
5	Mtg Plate & Roller Assembly	1	01-00801-000000
6	Printing Die Holder	1	00-02835-000136
7	Die Plate	1	00-05221-000000
8	"E" Ring	1	00-07331-000000
9	Counter Connecting Link	1	00-02852-000000
10	Shoulder Screw	1	00-05028-000000
11	"E" Ring (5133-18)	1	00-05418-000000
12	Ribbon Feed Arm Assembly	1	01-00804-000000
13	Ribbon Drive Link Stud (included w/1-707 Assembly)	1	00-06152-000000
14	Int Star Washer	1	#10
15	Ribbon Reverse Actuator Assy	1	01-00707-000000
16	Ext Star Washer	1	#10
17	Hex Nut	1	#10-32
18	Ribbon Actuator Shaft	1	00-02848-000000
19	Frame Assembly	1	01-00751-000000
20	Grommet	1	00-02160-000149
21	Ribbon Feeler (RH)	1	00-02762-000274
22	Binding Hd Screw SEMS	4	#4-40 x 1/4
23	Ribbon Feeler Spring	2	00-02948-000000
24	Ribbon Shift Dog Assembly	1	01-00798-000243
25	Socket Set Screw	2	#8-32 x 1/8
26	Ribbon Friction Collar	2	00-02715-000000
27	Ribbon Ratchet Spring	2	00-02926-000000
28	Ribbon Shift Dog Assembly	1	01-00798-000274
29	Ribbon Frame Assembly	1	01-00728-000000
30	Int Star Washer	4	#6
31	Rd Hd Screw	4	#6-32 x 1/4
32	Ribbon Shaft Spacer	2	00-05241-000000
33	Ribbon Ratchet & Shaft Assy	2	01-00802-000243
34	Binding Hd Screw SEMS	1	#4-40 x 1/4
35	Flat Washer	1	#4
36	Ribbon Feed Fork	1	00-02765-000000
37	Ribbon Feed Pawl	1	00-06319-000000
38	"E" Ring (5133-18)	1	00-05418-000000
39	Ribbon Feed Pawl Spring	1	00-02622-000000
40	Toggle Snap Spring	1	00-02620-000000
41	Ribbon Reverse Toggle Assy	1	01-00591-000001
42	"E" Ring (5133-18)	2	00-05418-000000
43	Int Star Washer	4	#5
44	Rd Hd Screw	4	#5-40 x 5/16
45	Washer (included w/2855-136)	1	#5
46	Filstr Hd Screw (included w/2855-136)	1	#5-40 x 5/16
47	Counter Arm (included w/2855-136)	1	-
48	Counter Assembly	1	00-02855-000136
49	Rd Hd Screw	6	#8-32 x 5/16
50	Int Star Washer	6	#8
51	Ribbon Feeler (LH)	1	00-02762-000243

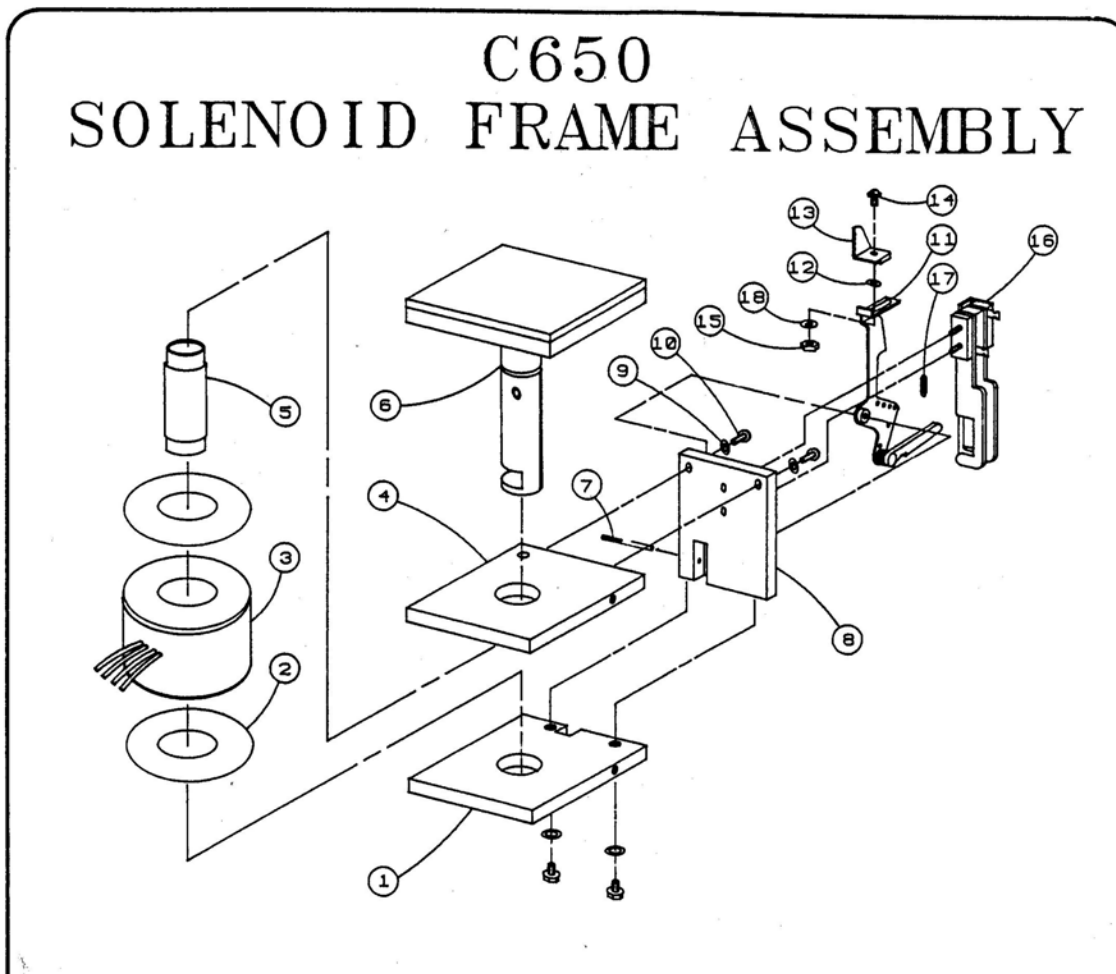
RIBBON & FRAME ASSEMBLY C650

C650 RIBBON FRAME ASSEMBLY



<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
52	Condenser	1	00-01083-000000
53	Int Star washer	2	#8
54	Rd Hd Screw	2	#8-32 x 5/16
55	Binding Hd Screw SEMS	2	#4-40 x 1/4
56	Die Holder Lock Spring	1	00-02815-000000
57	Steel Ball	1	00-02901-000000

SOLENOID FRAME ASSEMBLY C650



<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Bottom Plate	1	00-05494-000000
2	Coil Insulator	2	00-05763-000000
3	Solenoid Coil	1	00-02927-000000
4	Top Plate	1	00-05492-000000
5	Plunger Guide	1	00-02736-000000
6	Printing Weight Assembly	1	01-00754-000000
7	Trigger Pivot Shaft	1	00-05432-000000
8	Back Plate	1	00-05424-000000
9	Int Star Washer	4	#8
10	Hex Hd Screw	4	#8-32 x 1/2
11	Trigger Assembly	1	01-00603-000000
12	Washer	1	#4
13	Trigger Top	1	00-05660-000000
14	Rd Hd Screw SEMS	1	#4-40 x 1/4
15	Hex Nut	1	#4-40
16	Contact Assembly	1	01-00361-000000
17	Trigger Return Spring	1	00-02614-000000
18	Ext Star Washer	1	#4

OPTIONAL FEATURES



The following pages contain instructions on how to add optional features.

Caution should always be exercised when modifying electrical equipment. Always unplug machine from outlet prior to disassembling.

The instructions do not mention disassembly procedures since they are usually straightforward.

Simply remove necessary parts until area of interest is exposed. These parts must be re-assembled when modification is complete.

Due to physical restrictions, it is not always possible to combine certain options.

For further clarification, contact:

RAPIDPRINT INC.
2055 S. MAIN ST.
MIDDLETOWN, CT 06457
Tel: (860)343-5347
Fax: (860)347-8775
E mail: rapidprint@bidwellinc.com

VISUAL COUNTER

RETROFITTING A STANDARD AN-E/AR-E MACHINE

- Replace Bottom Front Plate with p/n 00-07240-000000 (or machine a 1.435 x .885 cutout in existing plate).
- Remove Retaining Clip from Counter p/n 00-02855-000001.
- Guide counter leads through opening of Bottom Front Plate from the front of machine.
- Reinstall Retaining Clip.
- Once in place, fasten Counter by pushing down on Retaining Clip until firmly locked into position.

WIRING AN-E MACHINE

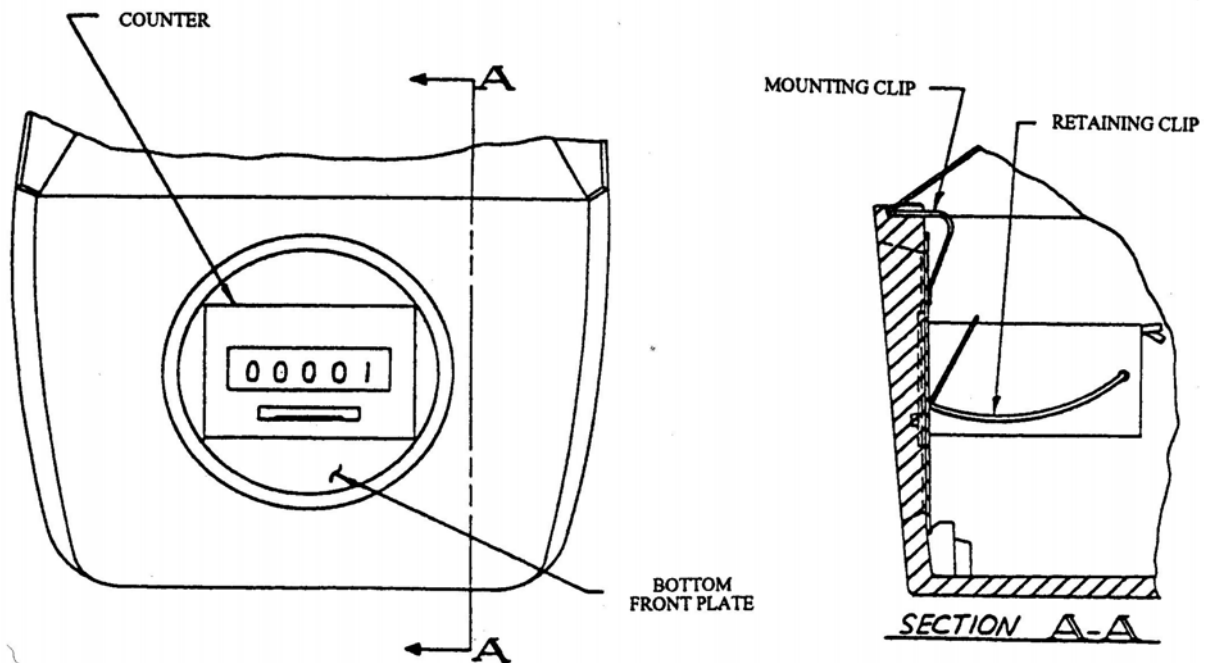
Wire an AN-E machine per wiring diagram 08-00218-000030 and/or perform the following steps:

- 1-Replace P.C. Bd with p/n 01-07310-000002.
- 2-Tap one counter lead to white wire attached to position 5 of connector and the other lead to white wire attached to position 12 of connector. This can be done by using a self-stripping splice connector p/n 00-05491-000001 (2 required).

WIRING AR-E MACHINE

Wire an AR-E machine per wiring diagram 08-00217-000008 and/or perform the following steps:

- 1-Replace P.C. Bd with p/n 01-07310-000002.
- 2-Change connections of white motor leads from positions 5 & 12 to 4 & 13.
- 3-Insert counter leads in connector positions 5 & 12.



REPEAT SWITCH

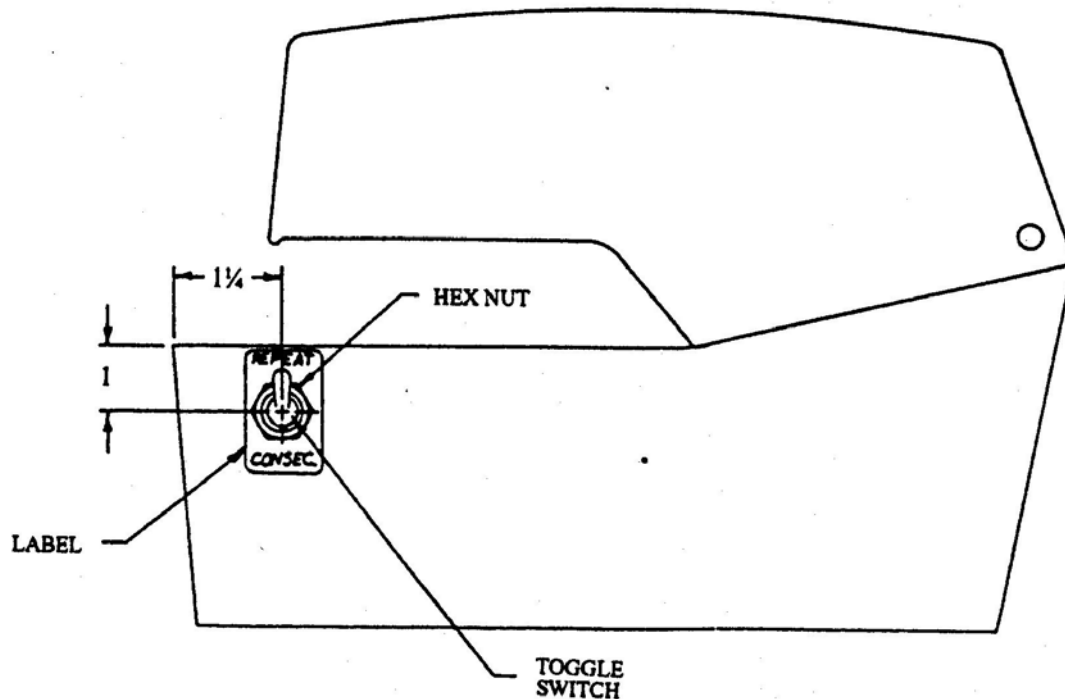
RETROFITTING A STANDARD AN-E MACHINE

- Drill 1/2"DIA. hole in bottom casting-location specified on diagram.
- Apply Label p/n 00-05212-000000 onto casting using centerline to locate center of hole.
- Using an X-ACTO knife, cut off label material that is covering mounting hole.
- Attach 2 wire assemblies p/n 01-06930-001140 to Toggle Switch-one to the center terminal, the other to the uppermost terminal.
- Remove Hex Nut & Knurled Nut from Toggle Switch. Thread Knurled Nut back onto shaft of Switch. Insert Switch from inside of casting. Thread Hex Nut onto Switch and tighten securely using an adjustable wrench. Caution is necessary to prevent scratching Label.

WIRING MACHINE

Wire machine per wiring diagram 08-00218-000001 and/or perform the following steps:

- 1-P.C. Bd must be D revision or later. If not, it must be replaced with p/n 01-07310-001129.
- 2-White solenoid wire must be moved from position 5 of connector to position 8.
- 3-Insert remaining ends of orange wires (p/n 01-06930-001140) in connector positions 5 & 10.



PUSHBUTTON NUMBER ADVANCE

RETROFITTING A STANDARD AN-E MACHINE

-Drill 1/2"DIA. hole in bottom casting-location specified on diagram.

WIRING MACHINE

Wire machine per wiring diagram 08-00218-000012 and/or perform the following steps:

- 1-P.C. Bd must be D revision or later. If not, it must be replaced with p/n 01-07310-001129.
- 2-If number advance is to be controlled by pushbutton only, modify P.C. Bd by clipping off Q4.
- 3-Using two Orange Wire Assemblies p/n 01-06930-000007, solder tinned ends to Pushbutton Switch terminals.
- 4-Mount Pushbutton Switch by first removing one of the two hex nuts, feed shaft of switch through hole of casting, thread Chrome Guard p/n 00-06265-000001 onto shaft and then tighten using the remaining hex nut.
- 5-Attach remaining ends of orange wires to positions 2 & 6 of connector.

PUSHBUTTON STAMPING

RETROFITTING A STANDARD AN-E/AR-E MACHINE

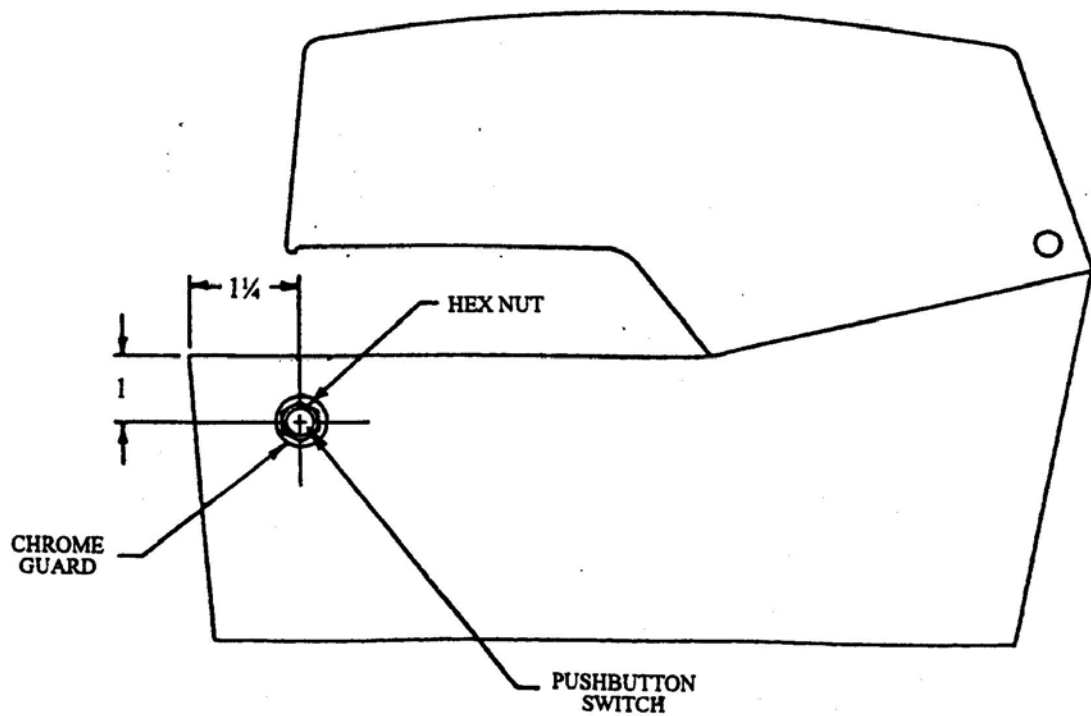
-Drill 1/2"DIA. hole in bottom casting-location specified on diagram.

WIRING AN-E/AR-E MACHINE

Wire an AN-E machine per wiring diagram 08-00218-000004 (AR-E machine:08-00217-000003) and/or perform the following steps:

- 1-Remove yellow wires from positions 7 & 9 of connector.
- 2-Using two Yellow Wire Assemblies p/n 01-06930-000579, solder tinned ends to Pushbutton Switch terminals.
- 3-Mount Pushbutton Switch by first removing one of the two hex nuts, feed shaft of switch through hole of casting, thread Chrome Guard p/n 00-06265-000001 onto shaft and then tighten using the remaining hex nut.
- 4-Attach remaining ends of yellow wires to positions 7 & 9 of connector.
- 5-If both pushbutton stamping & original trigger stamping is desired, skip step 1 and splice each orange wire to a yellow wire. This can be done by using a self-stripping splice connector p/n 00-05491-000001 (2 required).

**CASTING MODIFICATION FOR
PUSHBUTTON FEATURES**



WORD ROLL

RETROFITTING A STANDARD MACHINE

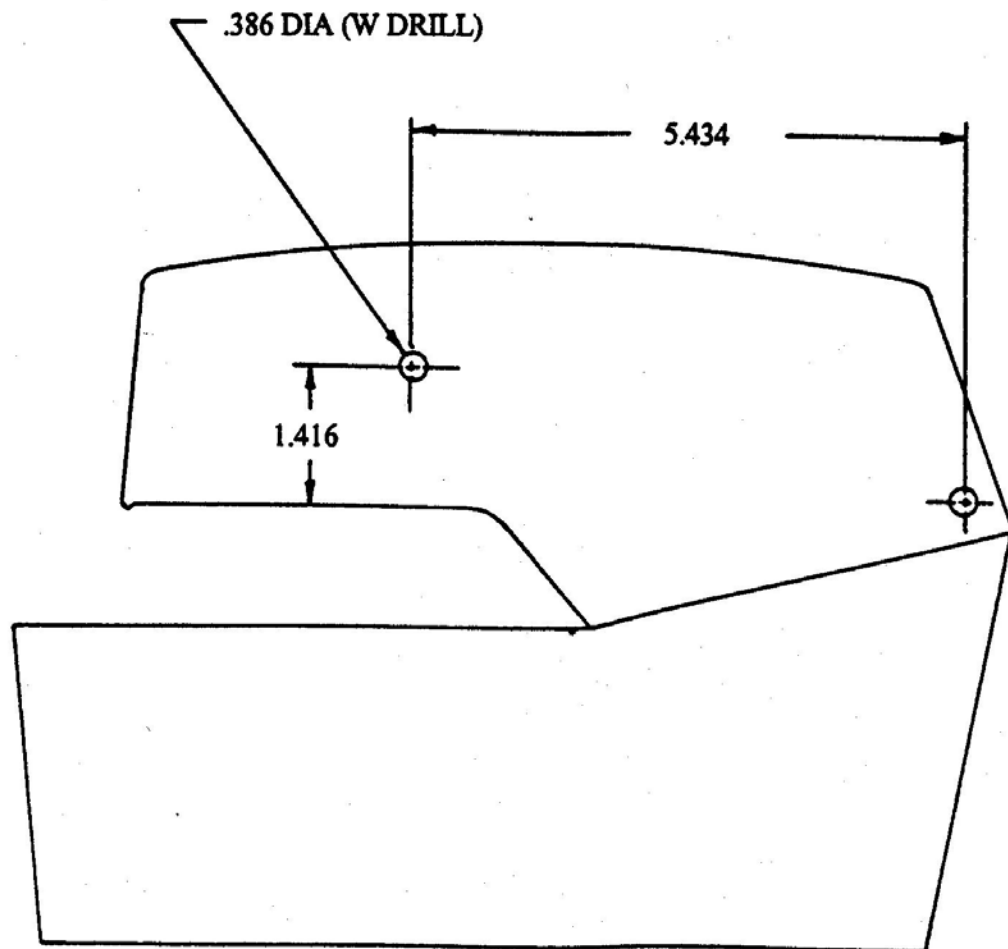
- Remove existing Typesection Assembly
- Drill a .386 DIA. hole in top cover of casting as per diagram below.
- Install one of the following Typesection Assemblies:

<u>MODEL</u>	<u>P/N</u>
AD WR	01-07554-000170
AR WR	01-07554-000201
ADN WR	01-07554-000330
ARMT WR	01-07554-000339

Word Roll and Knob will be provided blank unless desired engraving is specified (up to six separate engravings).

WIRING MACHINE

Same as previously wired.



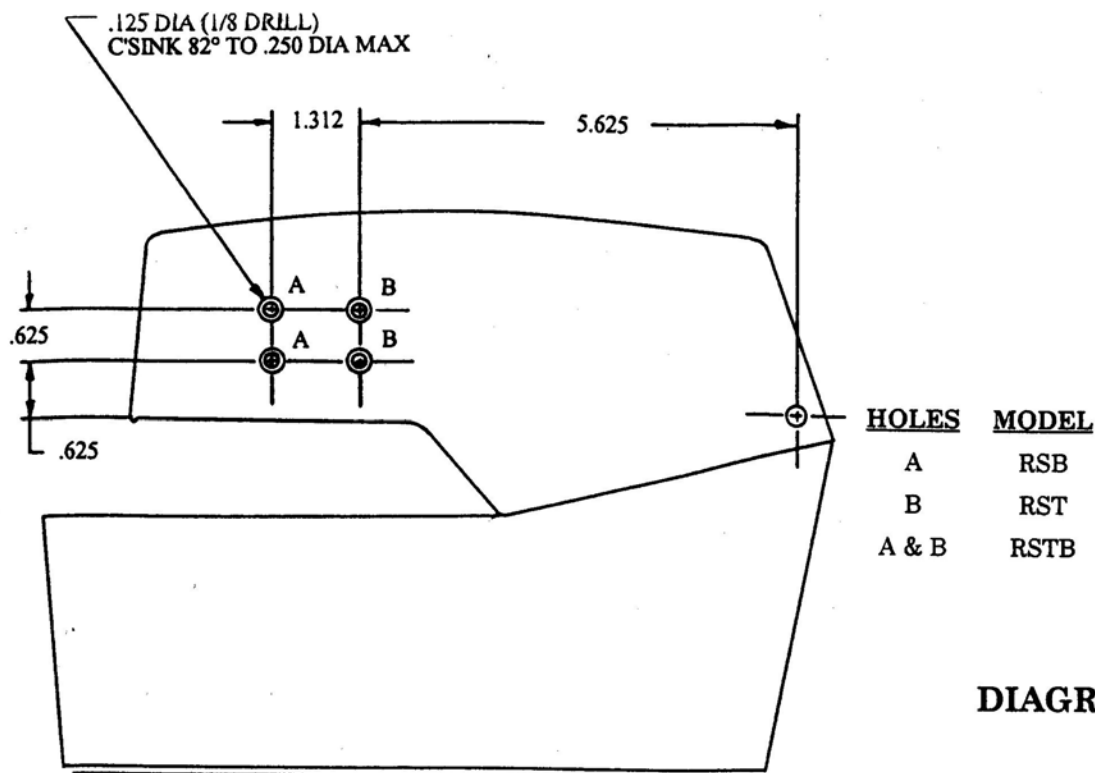


DIAGRAM A

PARTS LIST			QTY		
ITEM	P/N	DESCRIPTION	AR RSB	AR RST	AR RSTB
1	01-05672-000000	Die Clip Guide Assembly	1	1	2
2	00-05061-000000	Remov. Die Plate (BLANK)	1	1	2
3	see list	Typesection Assembly	1	1	1
4	00-01196-000000	Steel Ball	1	1	2
5	00-05385-000000	Compression Spring	1	1	2
6	#4-40 x 3/4	Flat Hd Phil Screw	2	2	4
7	00-06174-000000	Guide Plate	1	1	1
8	#4-40 x 3/16	Round Hd Screw	2	2	2
9	#4	Int Star Washer	2	2	2

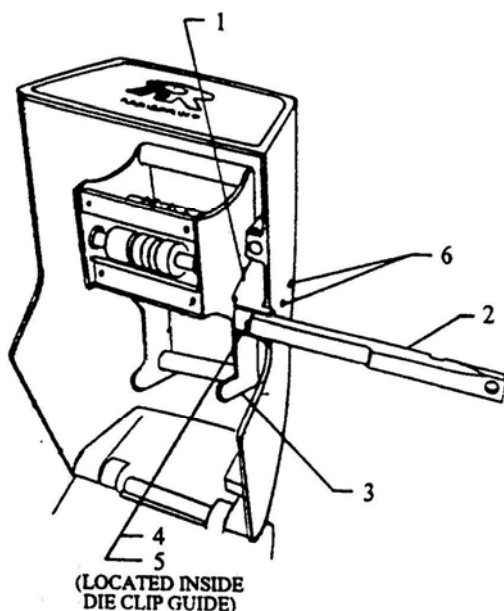


DIAGRAM B

RST/RSB REMOVABLE DIE

RETROFITTING A STANDARD MACHINE

- Remove existing Typesection Assembly
- Drill and countersink two (or four) holes as per Diagram A.
- Install one of the following Typesection Assemblies:

<u>MODEL</u>	<u>P/N</u>
AR RSB	1-7554-341
AR RST	1-7554-342
AR RSTB	1-7554-842

- Assemble Die Clip Guide Assembly (or assemblies) as per Diagram B.
- Remove two #4-40 x 5/32 Pan Hd SEMS screws presently fastening Leaf Spring p/n 5639
Assemble RSTB Guide Plate p/n 6174 over Leaf Spring p/n 5639 and
fasten using two #4-40 x 3/16 Round Hd screws and two #4 Internal Star Washers.

WIRING MACHINE

Same as previously wired.

ELECTRIC SECURITY LOCK

RETROFITTING A STANDARD AN-E /AR-E MACHINE

- Prepare Switchlock p/n 2865-573 by soldering two Blue Wire Assemblies p/n 1-6930-11 to Switchlock terminals 1 & 3.
 - Drill 3/4"Dia. hole. Pre-drilling a 5/16" dia. pilot hole is recommended.
 - Insert Switchlock through hole and fasten it into place with the supplied hex nut.
- NOTE: key slot must be in OFF position when vertical (counterclockwise).

WIRING AN-E MACHINE

Wire machine per wiring diagram 08-218-2 and/or perform the following steps:

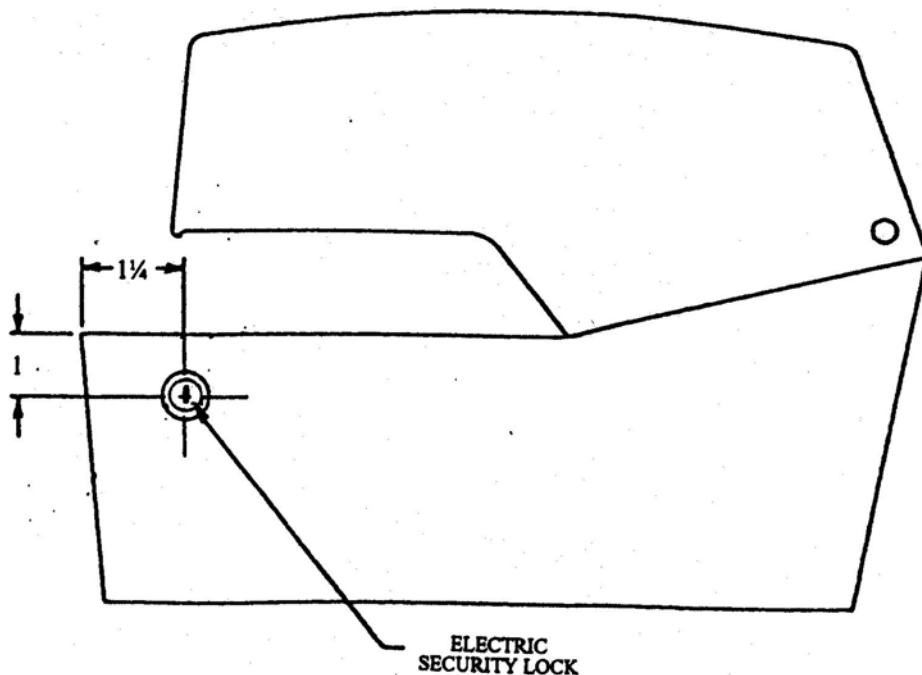
- 1-P.C. Bd must be D revision or later. If not, it must be replaced with p/n 1-7310-1129.
- 2-Remove yellow wire from position 9 of connector and reinsert it into position 8.
- 3-Insert blue wires from Switchlock into connector positions 9 & 10.

WIRING AR-E MACHINE

Wire machine per wire diagram 08-217-18 and/or perform the following steps:

- 1-Remove yellow wire from position 7 of connector and reinsert it into position 8.
- 2-Insert blue wires from Switchlock into connector positions 6 & 7.

CASTING MODIFICATION FOR ELECTRIC SECURITY LOCK FEATURE



FOOTSWITCH NUMBER ADVANCE

RETROFITTING A STANDARD AN-E MACHINE

-Drill 5/8" dia. hole in rear of bottom casting-location specified on diagram.

WIRING MACHINE

Wire machine per wiring diagram 08-218-43 and/or perform the following steps:

- 1-P.C. Bd must be D revision or later. If not, it must be replaced with p/n 1-7310-1129.
- 2-If number advance is to be controlled by footswitch only, modify P.C. Bd by clipping off Q4.
- 3-Insert footswitch cord through 5/8" dia. hole securing it in place using Grommet p/n 2160-552.
- 4-Insert black wire in position 6 of connector and white wire in position 2.
- 5-Fasten green (ground) wire to existing screw located at base of bottom casting-already containing two other ground wires.

FOOTSWITCH STAMPING

RETROFITTING A STANDARD AN-E/AR-E MACHINE

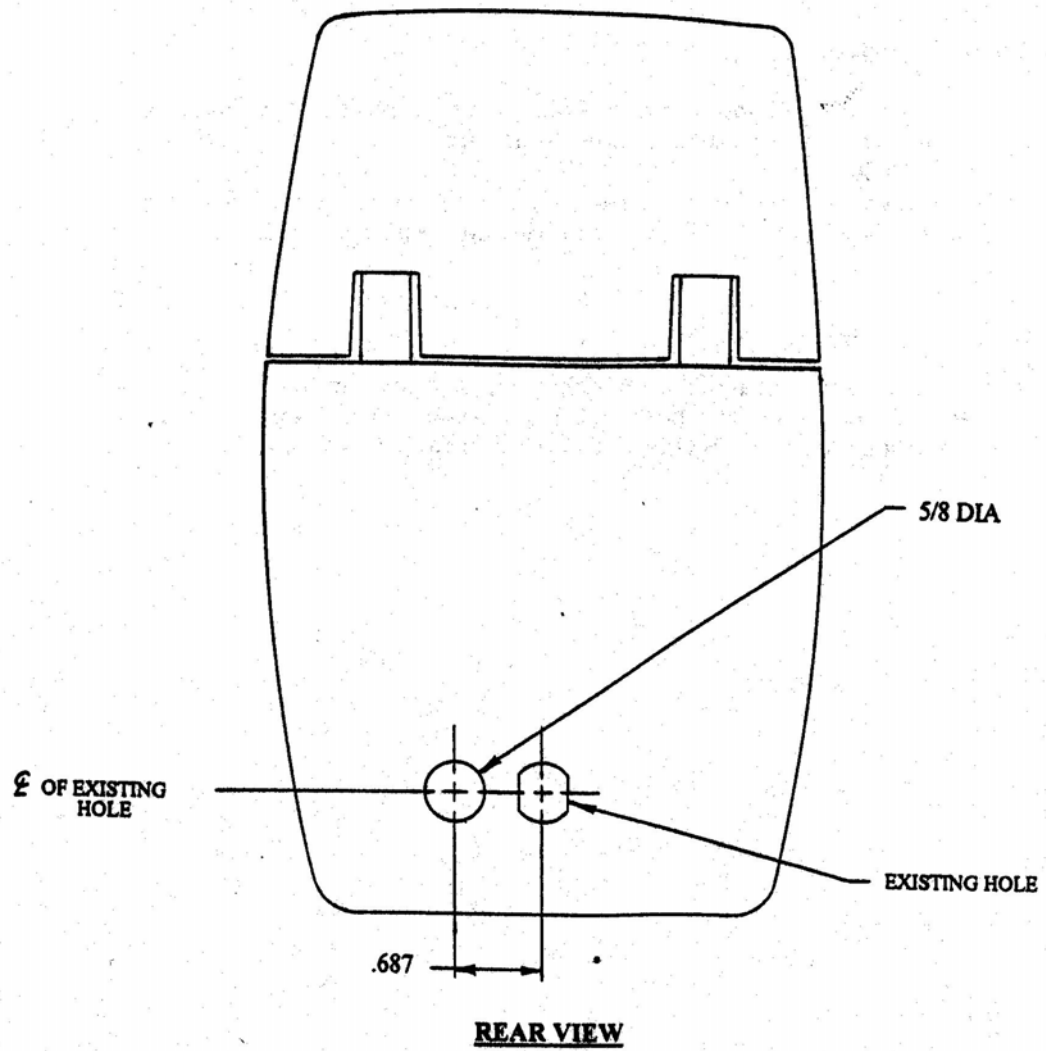
-Drill 5/8" dia. hole in rear of bottom casting-location specified on diagram.

WIRING AN-E/AR-E MACHINE

Wire an AN-E machine per wiring diagram 08-218-44 (AR-E machine:08-217-31) and/or perform the following steps:

- 1-Remove yellow wires from positions 7 & 9 of connector.
- 2-Insert footswitch cord through 5/8" dia. hole securing it in place using Grommet p/n 2160-552.
- 3-Insert black wire in position 9 of connector and white wire in position 7.
- 4-Fasten green (ground) wire to existing screw located at base of bottom casting-already containing two other ground wires.

CASTING MODIFICATION FOR FOOTSWITCH FEATURE

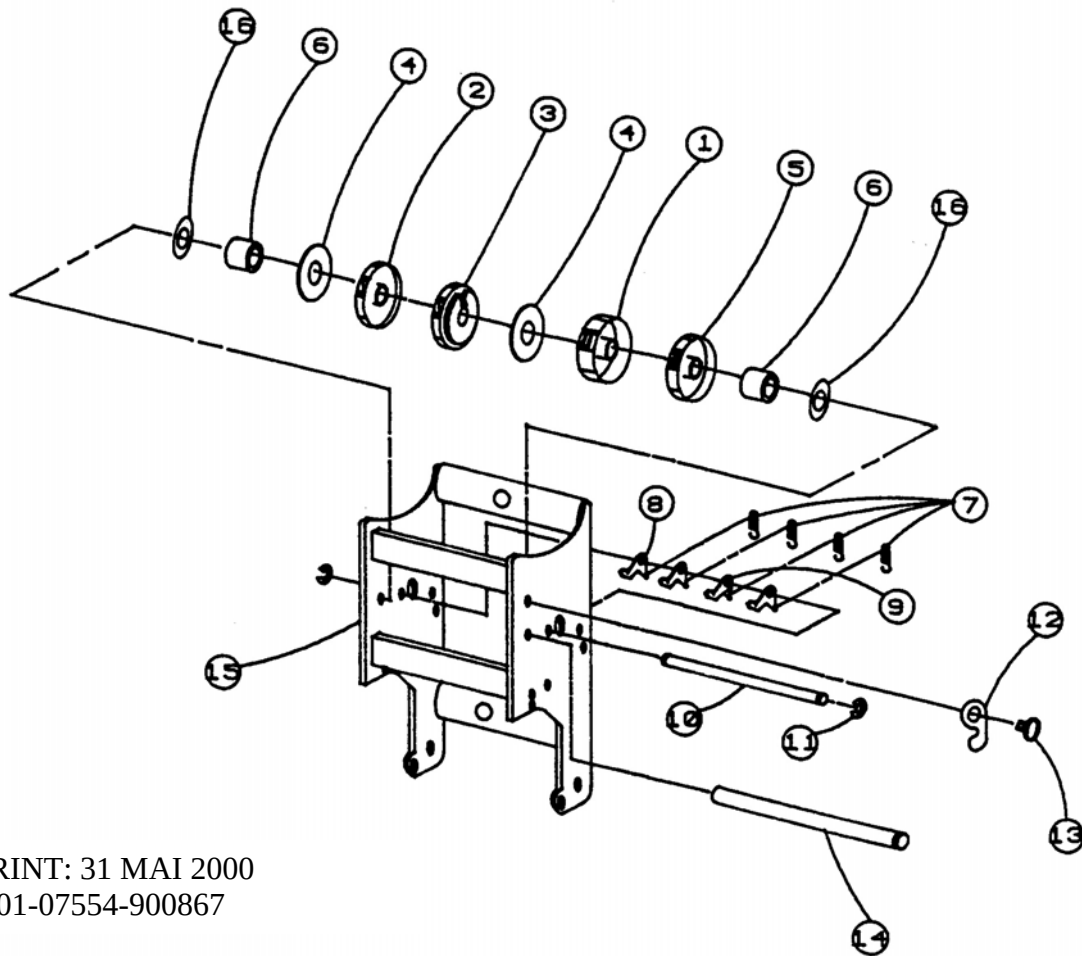




NOTES:

[illegible]

AD-E "EUROMEGRAS" TYPESECTION ASSEMBLY



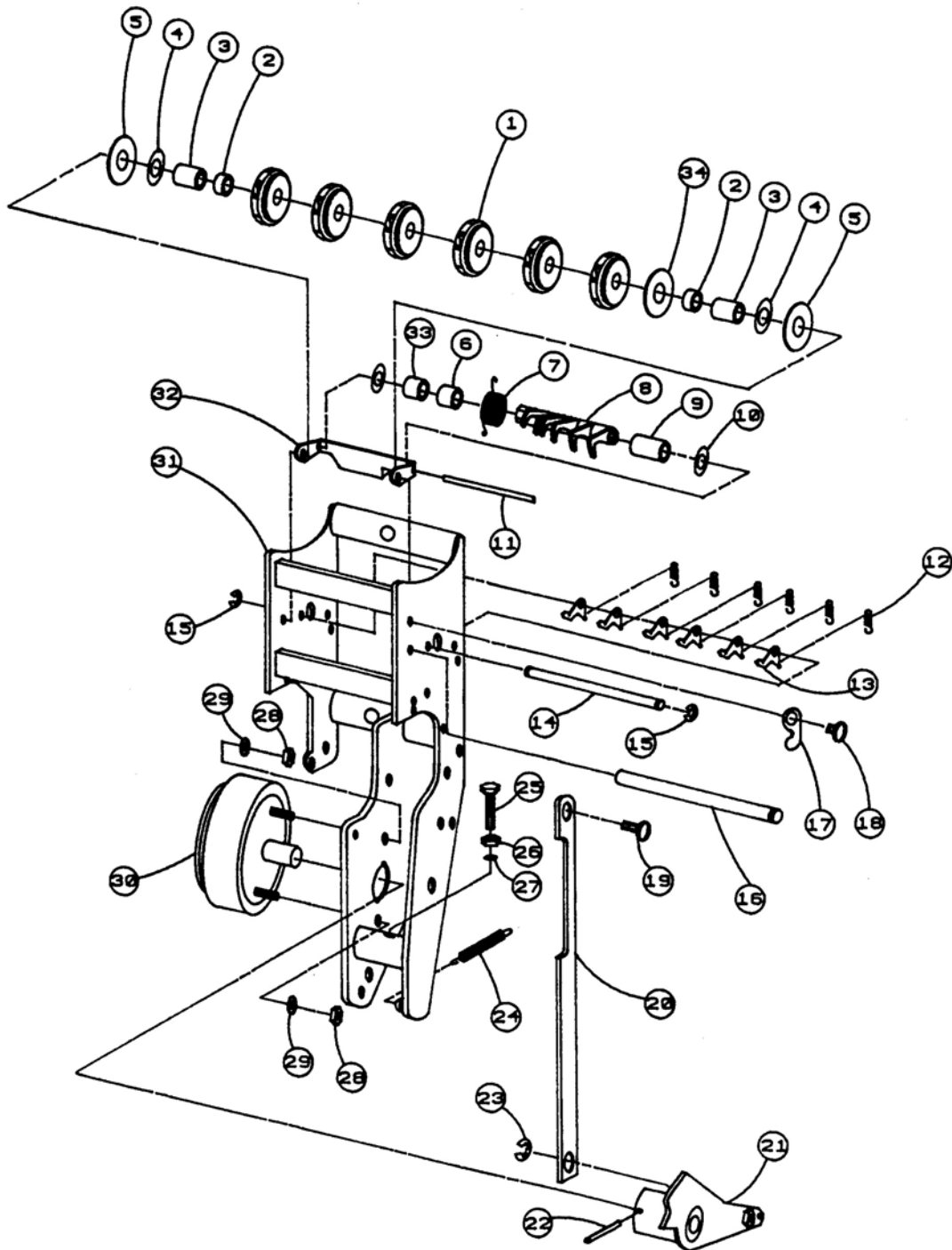
TO PRINT: 31 MAI 2000
REF: 01-07554-900867

NO.	PART NAME	QTY	P/N	NO.	PART NAME	QTY	P/N
1	Month Wheel Ass'y (French)	1		01-00497-005099	9	Retaining Pawl	
1	00-05747-000243						
2	1-2-3 Wheel Ass'y	1	01-00496-005243	10	Retaining Pawl Shaft	1	00-02682-000000
3	1-0 Date Wheel Ass'y	1	01-00495-005243	11	"E" Retaining Ring	2	00-05142-000000
4	Spacer	2	00-00296-000020	12	Wheel Shaft Retainer	1	00-06849-000000
5	Year Wheel Assembly	1	01-00498-005101	13	Binding Hd Scr #4-40x1/81 HDW-S440X1/8BH		
6	Spacer	2	00-04073-000001	14	Print Wheel Shaft	1	00-02526-000000
7	Retaining Pawl Spring 60oz	4		00-00980-000060	15	Top Frame	
Assembly		1	01-00553-000152				
8	Retaining Pawl	3	00-05747-000000	16	Washer	A/R	00-00297-000005, 00-00297-000010

AN-E “EUROMEGRAS” TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	1-0 Number Wheel Assembly	6	01-04043-005178
2	Spacer	2	00-02869-000000
3	Spacer	2	00-02695-000000
4	Spacer Washer	A/R	00-00297-000005, 00-00297-000010
5	Spacer Washer	A/R	00-00295-000010
6	Spacer	1	00-02306-000100
7	Actuating Pawl Spring	1	00-05275-000243
8	Actuating Pawl Assembly	1	01-05268-000243
9	Actuating Pawl Spacer	1	00-02306-000000
10	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
11	Actuating Pawl Shaft	1	00-02701-000000
12	Retaining Pawl Spring	6	00-06840-000036
13	Retaining Pawl	6	00-05747-000000
14	Retaining Pawl Shaft	1	00-02682-000000
15	"E" Retaining Ring	2	00-05142-000000
16	Print Wheel Shaft	1	00-02526-000000
17	Wheel Shaft Retainer	1	00-06849-000000
18	Binding Hd Screw #4-40 x 1/8	1	HDW-S440X1/8BH
19	Shoulder Screw	1	00-02824-000000
20	Connecting Arm	1	00-00512-000000
21	Actuating Arm Assembly	1	01-00500-000000
22	Roll Pin	1	HDW-P1/8X9/16R
23	"E" Retaining Ring	1	00-07331-000000
24	Return Spring	1	00-07100-000000
25	Hex Hd Screw #8-32 x 3/4	1	HDW-S832X3/4HH
26	Hex Nut #8-32	1	HDW-N832
27	Ext Star Washer #8	1	HDW-W8ES
28	Hex Nut #8	2	HDW-N832
29	Ext Star Washer #8	2	HDW-W8ES
30	Rotary Solenoid 220V	1	00-05755-000000
31	Top Frame Assembly	1	01-00553-000171
32	Actuating Pawl Swing	1	00-02492-000112
33	Spacer	1	00-02306-000025
34	Spacer	1	00-00296-000020

AN-E "EUROMEGRAS" TYPESECTION ASSEMBLY

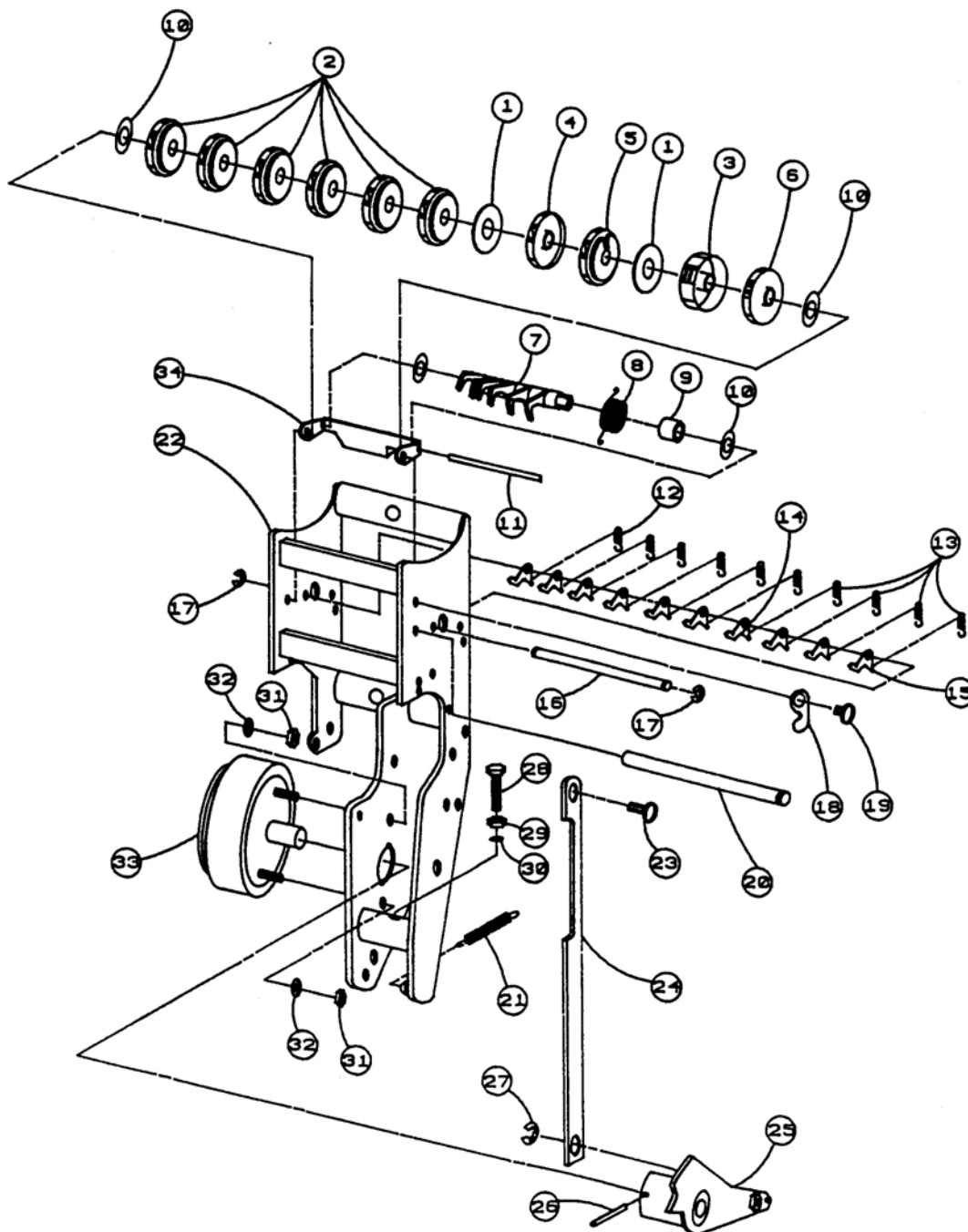


TO PRINT: 654321
REF: 01-07554-000177

ADN-E “EUROMEGRAS” TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	2	00-00296-000010
2	1-0 Number Wheel Assembly	6	01-04043-005178
3	Month Wheel Assembly (French)	1	01-00497-005099
4	HM-1L 1-2-3 Wheel Assembly	1	01-00496-005236
5	HM-1L 1-0 Date Wheel Assembly	1	01-00495-005236
6	Abbr. Vertical Year Wheel Ass'y	1	01-06160-005191
7	Actuating Pawl Assembly	1	01-05269-000243
8	Actuating Pawl Spring	1	00-05275-000274
9	Actuating Pawl Spacer	1	00-02306-000250
10	Washer	A/R	00-00297-000005, 00-00297-000010
11	Actuating Pawl Shaft	1	00-02701-000000
12	Retaining Pawl Spring	6	00-06840-000036
13	Retaining Pawl Spring	4	00-00980-000060
14	Retaining Pawl-Right Hand	1	00-05747-000274
15	Retaining Pawl	9	00-05747-000000
16	Retaining Pawl Shaft	1	00-02682-000000
17	"E" Retaining Ring	2	00-05142-000000
18	Wheel Shaft Retainer	1	00-06849-000000
19	Binding Hd Screw #4-40 x 1/8	1	HDW-S440X1/8BH
20	Print Wheel Shaft	1	00-02526-000000
21	Return Spring	1	00-07100-000000
22	Top Frame Assembly	1	01-00553-000171
23	Shoulder Screw	1	00-02824-000000
24	Connecting Arm	1	00-00512-000000
25	Actuating Arm Assembly	1	01-00500-000000
26	Roll Pin	1	HDW-P1/8X9/16R
27	"E" Retaining Ring	1	00-07331-000000
28	Hex Head Screw #8-32 x 3/4	1	HDW-S832X3/4HH
29	Hex Nut #8-32	1	HDW-N832
30	Ext Star Washer #8	1	HDW-W8ES
31	Hex Nut #8-32	2	HDW-N832
32	Ext Star Washer #8	2	HDW-W8ES
33	Rotary Solenoid 220V	1	00-05755-000000
34	Actuating Pawl Swing	1	00-02492-000001

ADN-E "EUROMEGRAS" TYPESECTION ASSEMBLY

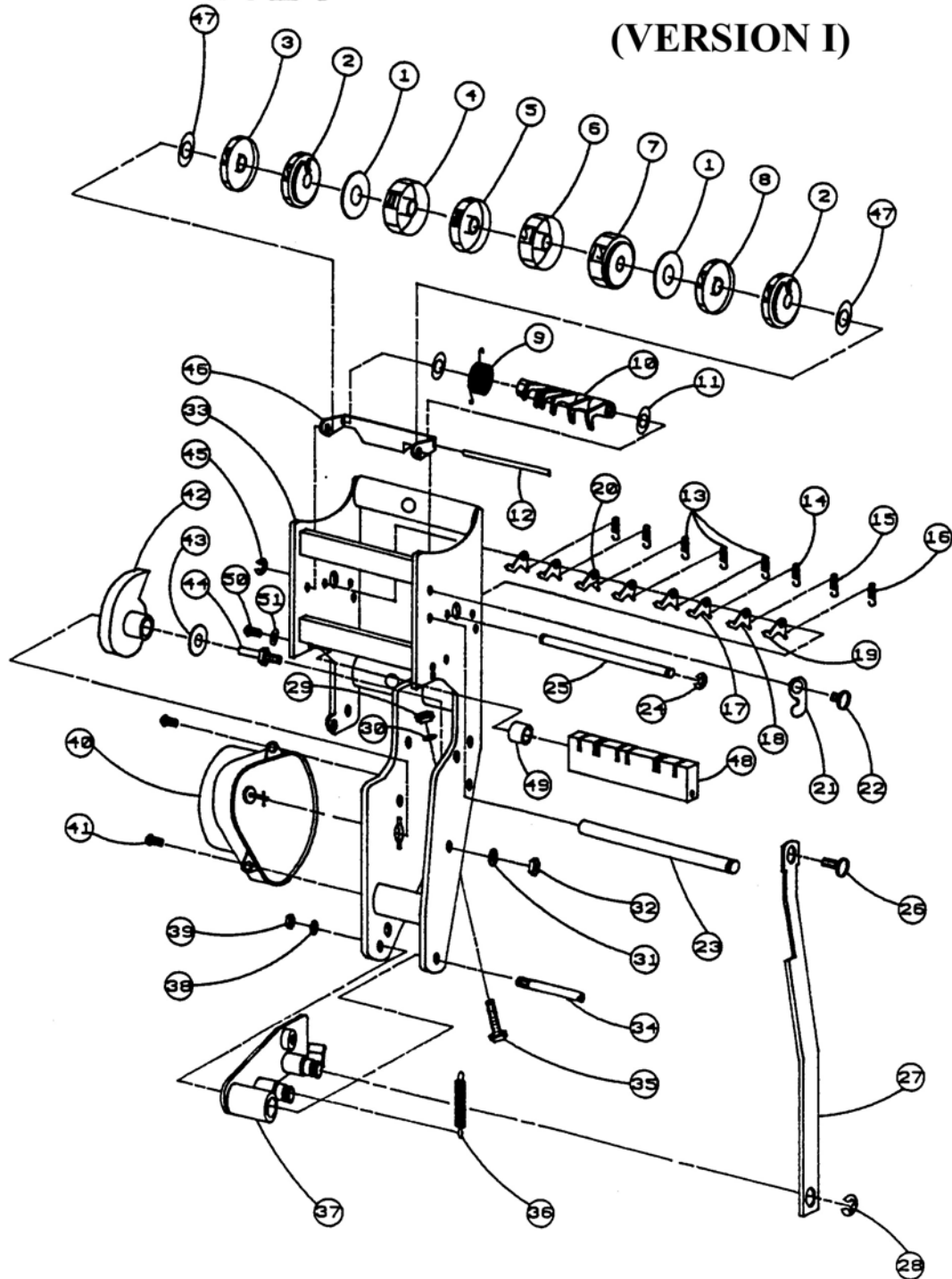


TO PRINT: 654321 31 MAI 2012
REF: 01-07554-900208

ARMT "EUROMEGRAS" (VERSION I) TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	2	00-00295-000010
2	1-0 Date Wheel Assembly	2	01-00495-005236
3	1-2-3 Date Wheel Assembly	1	01-00496-005236
4	Month Wheel Assembly (French)	1	01-00497-005099
5	Year Wheel Assembly	1	01-00498-005243
6	(13-23) Hour Wheel Assembly	1	01-00494-005259
7	(00-12) Hour Wheel Assembly	1	01-00493-005259
8	0-5 Tens Minute Wheel Assembly	1	01-00492-005236
9	Actuating Pawl Spring	1	00-05275-000243
10	Actuating Pawl Assembly	1	01-05266-005243
11	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
12	Actuating Pawl Shaft	1	00-02701-000000
13	Retaining Pawl Spring	3	00-00980-000060
14	Retaining Pawl Spring	1	00-00980-000045
15	Retaining Pawl Spring	3	00-00980-000021
16	Retaining Pawl Spring	1	00-00980-000036
17	Retaining Pawl-MT	1	00-05747-000112
18	Retaining Pawl	1	00-05747-000243
19	Retaining Pawl	5	00-05747-000000
20	Retaining Pawl	1	00-05747-000243
21	Wheel Shaft Retainer	1	00-06849-000000
22	Binding Hd Screw #4-40 x 1/8	1	HDW-S440X1/8BH
23	Print Wheel Shaft	1	00-02526-000000
24	"E" Retaining Ring	1	00-05142-000000
25	Retaining Pawl Shaft	1	00-02682-000000
26	Shoulder Screw	1	00-02824-000000
27	Connecting Arm	1	00-02530-000000
28	"E" Retaining Ring	1	00-07331-000000
29	Hex Nut #8-32	1	HDW-N832
30	Int Star Washer #8	1	HDW-W8IS
31	Ext Star Washer #10	1	HDW-W10ES
32	Hex Nut #10-32	1	HDW-N1032
33	Top Frame Assembly	1	01-00553-000185
34	Snap Lever Shaft	1	00-00507-000000
35	Hex Head Screw #8-32 x 3/4	1	HDW-S832X3/4HH
36	Return Spring	1	00-00828-000000
37	Cam Follower Assembly	1	01-00119-000000
38	Ext Star Washer #5	1	HDW-W5ES
39	Hex Nut #5-40	1	HDW-N540
40	Motor & Pin Assembly 220V	1	01-00586-000091
41	Binding Head Scr (SEMS)#4-40 x 1/4	2	HDW-S440X1/4BH(S)
42	Impulse Cam	1	01-00116-000000
43	Flat Washer #10	1	HDW-W10F
44	Cam Bearing Support	1	00-00504-000000
45	"E" Retaining Ring	1	00-05142-000000
46	Actuating Pawl Swing	1	00-02492-000112
47	Washer	A/R	00-00297-000005, 00-00297-000010
48	Spacer Bar	1	00-05735-000001
49	Spacer	1	00-00143-000100
50	Round Hd Screw #3-48 x 5/16	2	HDW-S348X5/16RH
51	Int Star Washer #3	2	HDW-W3IS

ARMT "EUROMEGRAS" TYPESECTION ASSEMBLY (VERSION I)

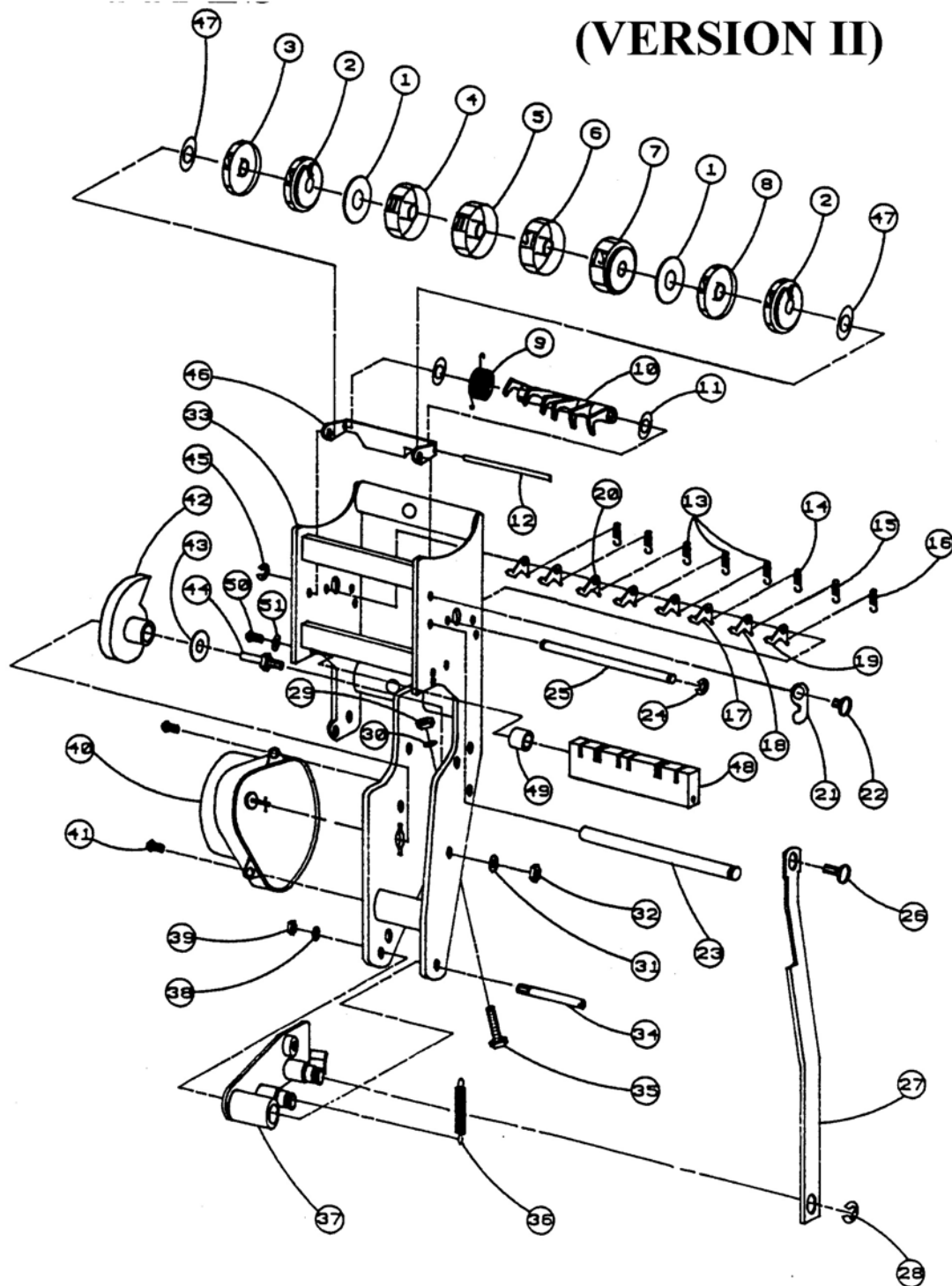


TO PRINT: 31 MAI 25 23 59
REF: 01-07554-000099

ARMT "EUROMEGRAS" (VERSION II) TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	2	00-00295-000010
2	1-0 Date Wheel Assembly	2	01-00495-005236
3	1-2-3 Date Wheel Assembly	1	01-00496-005236
4	Month Wheel Assembly (French)	1	01-00497-005099
5	Year Wheel Assembly	1	01-00498-005101
6	(13-23) Hour Wheel Assembly	1	01-00494-005259
7	(00-12) Hour Wheel Assembly	1	01-00493-005259
8	0-5 Tens Minute Wheel Assembly	1	01-00492-005236
9	Actuating Pawl Spring	1	00-05275-000243
10	Actuating Pawl Assembly	1	01-05266-000243
11	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
12	Actuating Pawl Shaft	1	00-02701-000000
13	Retaining Pawl Spring	3	00-00980-000060
14	Retaining Pawl Spring	1	00-00980-000045
15	Retaining Pawl Spring	3	00-00980-000021
16	Retaining Pawl Spring	1	00-00980-000036
17	Retaining Pawl-MT	1	00-05747-000112
18	Retaining Pawl	1	00-05747-000243
19	Retaining Pawl	5	00-05747-000000
20	Retaining Pawl	1	00-05747-000243
21	Wheel Shaft Retainer	1	00-06849-000000
22	Binding Hd Screw #4-40 x 1/8	1	HDW-S440X1/8BH
23	Print Wheel Shaft	1	00-02526-000000
24	"E" Retaining Ring	1	00-05142-000000
25	Retaining Pawl Shaft	1	00-02682-000000
26	Shoulder Screw	1	00-02824-000000
27	Connecting Arm	1	00-02530-000000
28	"E" Retaining Ring	1	00-07331-000000
29	Hex Nut #8-32	1	HDW-N832
30	Int Star Washer #8	1	HDW-W8IS
31	Ext Star Washer #10	1	HDW-W10ES
32	Hex Nut #10-32	1	HDW-N1032
33	Top Frame Assembly	1	01-00553-000185
34	Snap Lever Shaft	1	00-00507-000000
35	Hex Head Screw #8-32 x 3/4	1	HDW-S832X3/4HH
36	Return Spring	1	00-00828-000000
37	Cam Follower Assembly	1	01-00119-000000
38	Ext Star Washer #5	1	HDW-W5ES
39	Hex Nut #5-40	1	HDW-N540
40	Motor & Pin Assembly 220V	1	01-00586-000091
41	Binding Head Scr (SEMS)#4-40 x 1/4	2	HDW-S440X1/4BH(S)
42	Impulse Cam	1	01-00116-000000
43	Flat Washer #10	1	HDW-W10F
44	Cam Bearing Support	1	00-00504-000000
45	"E" Retaining Ring	1	00-05142-000000
46	Actuating Pawl Swing	1	00-02492-000112
47	Washer	A/R	00-00297-000005, 00-00297-000010
48	Spacer Bar	1	00-05742-000000
49	Spacer	1	00-00143-000100
50	Round Hd Screw #3-48 x 5/16	2	HDW-S348X5/16RH
51	Int Star Washer #3	2	HDW-W3IS

ARMT "EUROMEGRAS" TYPESECTION ASSEMBLY (VERSION II)

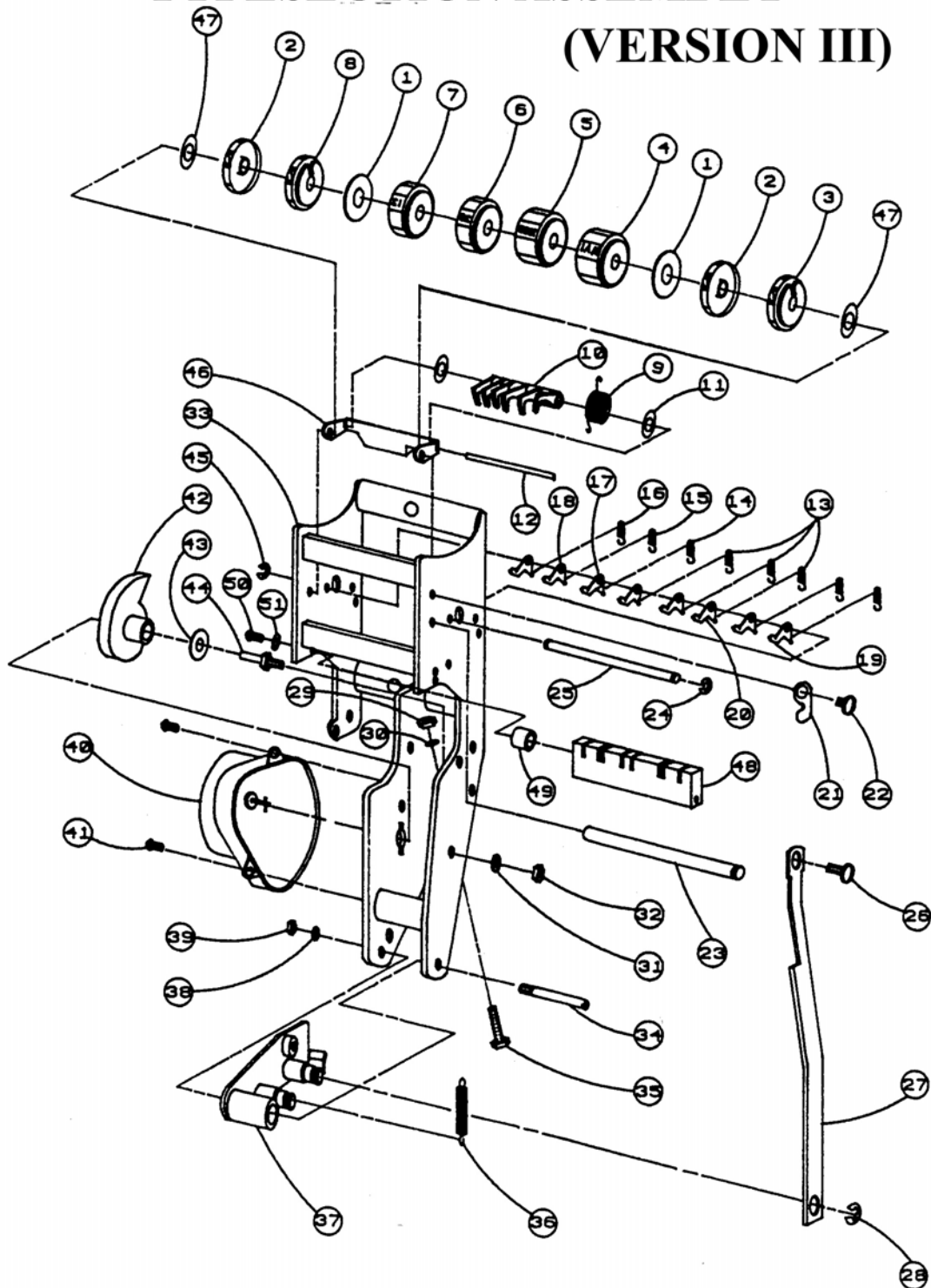


TO PRINT: 31 MAI 2025 23 59
REF: 01-07554-000999

ARMT-RH "EUROMEGRAS" (VERSION III) TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	2	00-00295-000010
2	1-0 Date Wheel Assembly	2	01-00495-005238
3	1-2-3 Date Wheel Assembly	1	01-00496-005238
4	Month Wheel Assembly (French)	1	01-00497-051055
5	Year Wheel Assembly	1	01-00498-005105
6	(13-23) Hour Wheel Assembly	1	01-00494-005261
7	(00-12) Hour Wheel Assembly	1	01-00493-005261
8	0-5 Tens Minute Wheel Assembly	1	01-00492-005238
9	Actuating Pawl Spring RH	1	00-05275-000274
10	Actuating Pawl Assembly	1	01-05266-000274
11	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
12	Actuating Pawl Shaft	1	00-02701-000000
13	Retaining Pawl Spring	3	00-00980-000060
14	Retaining Pawl Spring	1	00-00980-000045
15	Retaining Pawl Spring	3	00-00980-000021
16	Retaining Pawl Spring	1	00-00980-000036
17	Retaining Pawl-MT	1	00-05747-000112
18	Retaining Pawl	1	00-05747-000243
19	Retaining Pawl	5	00-05747-000000
20	Retaining Pawl	1	00-05747-000243
21	Wheel Shaft Retainer	1	00-06849-000000
22	Binding Hd Screw #4-40 x 1/8	1	HDW-S440X1/8BH
23	Print Wheel Shaft	1	00-02526-000000
24	"E" Retaining Ring	1	00-05142-000000
25	Retaining Pawl Shaft	1	00-02682-000000
26	Shoulder Screw	1	00-02824-000000
27	Connecting Arm	1	00-02530-000000
28	"E" Retaining Ring	1	00-07331-000000
29	Hex Nut #8-32	1	HDW-N832
30	Int Star Washer #8	1	HDW-W8IS
31	Ext Star Washer #10	1	HDW-W10ES
32	Hex Nut #10-32	1	HDW-N1032
33	Top Frame Assembly	1	01-00553-000185
34	Snap Lever Shaft	1	00-00507-000000
35	Hex Head Screw	1	#8-32 x 3/4
36	Return Spring	1	00-00828-000000
37	Cam Follower Assembly	1	01-00119-000000
38	Ext Star Washer #5	1	HDW-W5ES
39	Hex Nut #5-40	1	HDW-N540
40	Motor & Pin Assembly 220V	1	01-00586-000091
41	Binding Head Scr (SEMS)#4-40 x 1/4	2	HDW-S440X1/4BH(S)
42	Impulse Cam	1	01-00116-000000
43	Flat Washer #10	1	HDW-W10F
44	Cam Bearing Support	1	00-00504-000000
45	"E" Retaining Ring	1	00-05142-000000
46	Actuating Pawl Swing	1	00-02492-000112
47	Washer	A/R	00-00297-000005, 00-00297-000010
48	Spacer Bar	1	00-05742-000000
49	Spacer	1	00-00143-000100
50	Round Hd Screw #3-48 x 5/16	2	HDW-S348X5/16RH
51	Int Star Washer #3	2	HDW-W3IS

ARMT-RH "EUROMEGRAS" TYPESECTION ASSEMBLY (VERSION III)



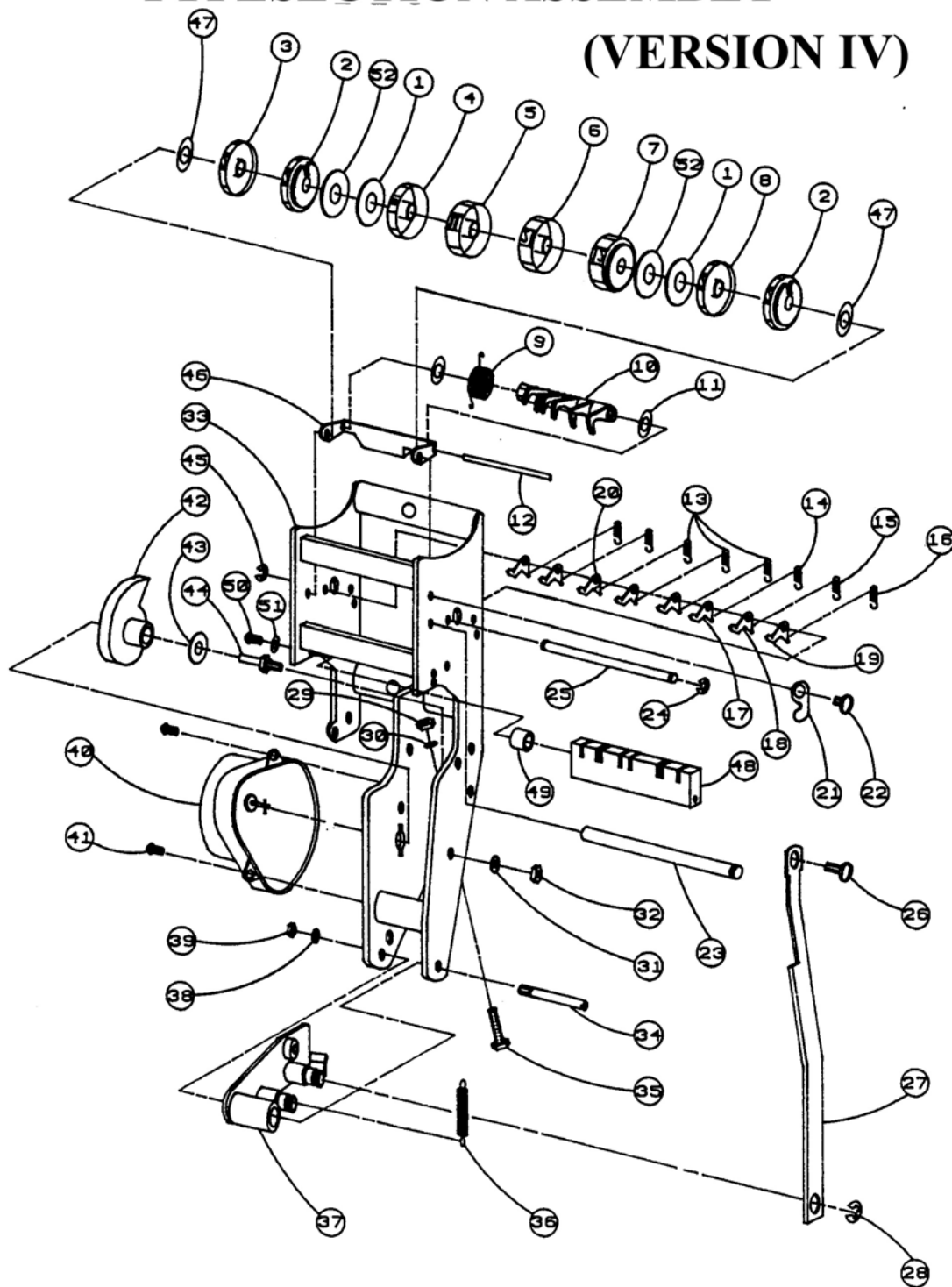
TO PRINT: 31 MAI 2025 23 59
REF: 01-07554-901084

ARMT "EUROMEGRAS" (VERSION IV) TYPESECTION ASSEMBLY

<u>No.</u>	<u>Item Name</u>	<u>Quantity</u>	<u>P/N</u>
1	Spacer	2	00-00295-000010
2	1-0 Date Wheel Assembly	2	01-00495-005236
3	1-2-3 Date Wheel Assembly	1	01-00496-005236
4	Month Whl Assy (Vert.French)	1	01-05399-005099
5	Year Wheel Assembly	1	01-00498-005101
6	(13-23) Hour Wheel Assembly	1	01-00494-005259
7	(00-12) Hour Wheel Assembly	1	01-00493-005259
8	0-5 Tens Minute Wheel Assembly	1	01-00492-005236
9	Actuating Pawl Spring	1	00-05275-000243
10	Actuating Pawl Assembly	1	01-05266-905243
11	Spacer	A/R	00-00299-000002, 00-00299-000005, 00-00299-000010
12	Actuating Pawl Shaft	1	00-02701-000000
13	Retaining Pawl Spring	3	00-00980-000060
14	Retaining Pawl Spring	1	00-00980-000045
15	Retaining Pawl Spring	3	00-00980-000021
16	Retaining Pawl Spring	1	00-00980-000036
17	Retaining Pawl-MT	1	00-05747-000112
18	Retaining Pawl	1	00-05747-000243
19	Retaining Pawl	5	00-05747-000000
20	Retaining Pawl	1	00-05747-000243
21	Wheel Shaft Retainer	1	00-06849-000000
22	Binding Hd Screw #4-40 x 1/8	1	HDW-S440X1/8BH
23	Print Wheel Shaft	1	00-02526-000000
24	"E" Retaining Ring	1	00-05142-000000
25	Retaining Pawl Shaft	1	00-02682-000000
26	Shoulder Screw	1	00-02824-000000
27	Connecting Arm	1	00-02530-000000
28	"E" Retaining Ring	1	00-07331-000000
29	Hex Nut #8-32	1	HDW-N832
30	Int Star Washer #8	1	HDW-W8IS
31	Ext Star Washer #10	1	HDW-W10ES
32	Hex Nut #10-32	1	HDW-N1032
33	Top Frame Assembly	1	01-00553-000185
34	Snap Lever Shaft	1	00-00507-000000
35	Hex Head Screw #8-32	1	HDW-S832X3/4HH
36	Return Spring	1	00-00828-000000
37	Cam Follower Assembly	1	01-00119-000000
38	Ext Star Washer #5	1	HDW-W5ES
39	Hex Nut #5-40	1	HDW-N540
40	Motor & Pin Assembly 220V	1	01-00586-000091
41	Binding Head Scr (SEMS)#4-40 x 1/4	2	HDW-S440X1/4BH(S)
42	Impulse Cam	1	01-00116-000000
43	Flat Washer #10	1	HDW-W10F
44	Cam Bearing Support	1	00-00504-000000
45	"E" Retaining Ring	1	00-05142-000000
46	Actuating Pawl Swing	1	00-02492-000112
47	Washer	A/R	00-00297-000005, 00-00297-000010
48	Spacer Bar	1	00-05735-900001
49	Spacer	1	00-00143-000100
50	Round Hd Screw #3-48	2	HDW-S348X5/16RH
51	Int Star Washer #3	2	HDW-W3IS
52	Spacer	2	00-00295-000005

ARMT "EUROMEGRAS" TYPESECTION ASSEMBLY

(VERSION IV)



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